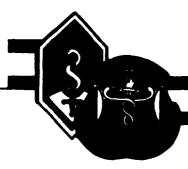
**USAARL Report No. 93-35** 

AD-A274 400



# Monograph of the Aviation Epidemiology Data Register for CY 1992

By

Robert H. Schrimsher Prime Technology, Inc.

and

S DTIC ELECTE JAN 0 4 1994

Samuel G. Shannon Impact, Tolerance, and Protection Division

August 1993

Approved for public release; distribution unlimited.

93 12 27 091

United States Army Aeromedical Research Laboratory Fort Rucker, Alabama 36362-5292

#### **Notice**

### **Oualified requesters**

Qualified requesters may obtain copies from the Defense Technical Information Center (DTIC), Cameron Station, Alexandria, Virginia 22314. Orders will be expedited if placed through the librarian or other person designated to request documents from DTIC.

### Change of address

Organizations receiving reports from the U.S. Army Aeromedical Research Laboratory on automatic mailing lists should confirm correct address when corresponding about laboratory reports.

## **Disposition**

Destroy this document when it is no longer needed. Do not return it to the originator.

#### Disclaimer

The views, opinions, and/or findings contained in this report are those of the author(s) and should not be construed as an official Department of the Army position, policy, or decision, unless so designated by other official documentation. Citation of trade names in this report does not constitute an official Department of the Army endorsement or approval of the use of such commercial items.

Reviewed:

JOHN V. BARSON

LTC, MC, SFS Director, Impact, Tolerance,

and Protection Division

BOUHR W. WILEY O.D., Ph.D

Chairman, Scientific Review Committee Released for publication:

DAVID H. KARWEY Colonel, MC, SFS

Commanding

CECTIFIED	CL V CCIPIC V.	TON OF	HIS DA	7

REPORT DOCUMENTATION PAGE  Form Approved OMB No. 0704-0188							
	P.C. 101914			Tib. RESTRICTIVE MARKINGS			
1a. REPORT SECURITY CLASSIFICATION Unclassified				10. RESTRICTIVE	MARKINGS		
		N AUTHORITY	·····	3. DISTRIBUTION	AVAILABILITY OF	REPORT	
2b. DECLASSIF	CATION / DOV	VNGRADING SCHEDU	LE	Approved funlimited	or public re	lease,	distribution
.4. PERFORMIN	IG ORGANIZAT	ION REPORT NUMBE	R(S)	5. MONITORING	ORGANIZATION RE	PORT NU	MBER(S)
USAARL R	Report No.	93-35					
6a. NAME OF	PERFORMING	ORGANIZATION	6b. OFFICE SYMBOL	7a. NAME OF M	ONITORING ORGAN	IZATION	
U.S. Arm	y Aeromed	ical Research	(If applicable)	U.S. Army	Medical Rese	arch a	nd Development
Laborato			SGRD-UAD-IE	Command			
6c. ADDRESS (		d ZIP Code)			ty, State, and ZIP C	ode)	
P.O. Box		2/2/2 2577		Fort Detri			
Fort Ruc	ker, AL	36362-0577		Frederick,	MD 21702-5	012	
8a. NAME OF	FUNDING / SPC	NSORING	Bb. OFFICE SYMBOL	9. PROCUREMEN	T INSTRUMENT IDE	NTIFICATI	ON NUMBER
ORGANIZA			(If applicable)		fort under co		
				No. DAMD17	-92-C-2062		
8c. ADDRESS (	City, State, and	i ZIP Code)			FUNDING NUMBERS		
				PROGRAM ELEMENT NO.	PROJECT NO.	TASK NO.	WORK UNIT ACCESSION NO.
				0602787A	BM162787A87	ВН	144
11. TITLE (Incl	ude Security C	lassification)		1 0002.0	D.1.1027071107	<u> </u>	
•	-		emiology Data Re	gister for	CY 1992		
12. PERSONAL	AUTHOR(S)				······································		
		her, and S. G.	. Shannon				
13a. TYPE OF Final	REPORT	13b. TIME CO	OVERED TO	14. DATE OF REPO	ORT ( <i>Year, Month, L</i> st	Dey) 15.	PAGE COUNT 93
16. SUPPLEME	NTARY NOTAT	TON					
17.	COSATI	CODES	18. SUBJECT TERMS (	Continue on reven	e if necessary and	identify (	by block number)
FIELD	GROUP	SUB-GROUP			1 -1	<i>-</i>	
06	05		epidemiology	, databases	, laboratory	ringi	ngs, demographics
05	02						
19. ABSTRACT	(Continue on	reverse if necessary	and identify by block n	umber)			
			is to provide th				
			Register (AEDR)				
			E) based on info to provide these				
				deta with	little discu	ssion	so as to
encourage comparisons with other monographs.							
		LITY OF ABSTRACT		_	CURITY CLASSIFICA	TION	
		ED SAME AS R	PT. DTIC USERS	Unclassif		1133- 6-	EVE EVARAL
22a. NAME OF Chief. S		INDIVIDUAL Information (	Center	205-255-6	(include Area Code) 907		D-UAX-SI
	2 HIM OF	THIOTHGCION (	/U.1.CU.				ATION OF THE BACE

## <u>Acknowledgments</u>

The authors wish to thank LTC Stephen E. Morse, research optometrist, Visual Sciences Branch, USAARL, for his insight and helpful suggestions regarding the analysis of the visual data. Also, considerable appreciation to Dr. Heber Jones and Mr. Andy Hidgon, USAARL Computer Applications Branch, for their advice regarding data extraction and analysis.

Accesio	on For				
NTIS DTIC Unanno Justific	ounced	Ď D			
By Dist: ibution /					
Availability Codes					
Dist	Avail a Spec				
A-1					

DTIC QUALITY INSPECTED 8

## Preface

This work was supported by the U.S. Army Medical Research and Development Command under Contract No. DAMD17-92-C-2062.

-					-
				•	1
	1 4	1			
	:				•
1	٠.		•		
				-	
			•		
•					
		•			
			٠.		٠
		,			
					÷
		·			:

# Table of contents

List of tables	ii
Introduction	1
Purpose	1
General rules for the AEDR monographs	1
Reference	3
Appendix A: Tables	4
List of tables	
A-1. Required items for class 2 and class 2A FDME	5
A-2. Demographic data	7
A-3. Age group stratified by gender and component	8
A-4. Urine specific gravity stratified by gender, age group, and component	9
A-5. Hematocrit stratified by gender, age group, and component	10
A-6. Statutory height (inches) stratified by gender, age group, and component	11
A-7. Body mass (in lbs) stratified by gender, age group, and component	12
A-8. Body mass index stratified by gender, age group, and component	13
A-9. Systolic blood pressure (mm Hg): sitting stratified by gender, age group, and component	14
A-10. Diastolic blood pressure (mm Hg): sitting stratified by gender, age group, and component	15
A-11. Elevated bp for males stratified by age group and component	16
A-12. Pulse: sitting stratified by gender, age group,	17

# <u>List of tables</u> (Continued).

A-13.	Total serum cholesterol stratified by gender, age group, and component	18
A-14.	Elevated total serum cholesterol stratified by gender, age group, and component	19
A-15.	Corrective lenses stratified by gender, age group, and component	20
A-16.	Male right eye distant vision stratified by age group and component	21
A-17.	Male left eye distant vision stratified by age group and component	23
A-18.	Male right eye near vision stratified by age group and component	25
A-19.	Male left eye near vision stratified by age group and component	27
A-20.	Female right eye distant vision stratified by age group and component	29
A-21.	Female left eye distant vision stratified by age group and component	31
A-22.	Female right eye near vision stratified by age group and component	33
A-23.	Female left eye near vision stratified by age group and component	35
A-24.	Male hyperphoria stratified by age group and component	37
A-25.	Female hyperphoria stratified by age group and component	40
A-26.	Male esophoria/exophoria stratified by age group and component	42
A-27.	Female exophoria/exophoria stratified by age group and component	44
A-28.	Male right ear (500 Hz) stratified by age group and component	46
A-29.	Male left ear (500 Hz) stratified by age group and component	48

# <u>List of tables</u> (Continued).

A-30.	Male right ear (1000 Hz) stratified by age group and component	50
A-31.	Male left ear (1000 Hz) stratified by age group and component	52
A-32.	Male right ear (2000 Hz) stratified by age group and component	54
A-33.	Male left ear (2000 Hz) stratified by age group and component	56
A-34.	Male right ear (3000 Hz) stratified by age group and component	58
A-35.	Male left ear (3000 Hz) stratified by age group and component	60
A-36.	Male right ear (4000 Hz) stratified by age group and component	62
A-37.	Male left ear (4000 Hz) stratified by age group and component	64
A-38.	Male right ear (6000 Hz) stratified by age group and component	66
A-39.	Male left ear (6000 Hz) stratified by age group and component	68
A-40.	Female right ear (500 Hz) stratified by age group	70
A-41.	Female left ear (500 Hz) stratified by age group	72
A-42.	Female right ear (1000 Hz) stratified by age group	74
A-43.	Female left ear (1000 Hz) stratified by age group	76
A-44.	Female right ear (2000 Hz) stratified by age group	78
A-45.	Female left ear (2000 Hz) stratified by age group	80
A-46.	Female right ear (3000 Hz) stratified by age group	82

# <u>List of tables</u> (Continued).

A-47.	Female left ear (3000 Hz) stratified by age group
A-48.	Female right ear (4000 Hz) stratified by age group
A-49.	Female left ear (4000 Hz) stratified by age group
A-50.	Female right ear (6000 Hz) stratified by age group
A-51.	Female left ear (6000 Hz) stratified by age group

#### Introduction

The principal value of any longitudinal database is realized through the presentation of standardized monographs, periodically published reports relating the occurrence of specific events within the study population. Data derived from flying duty medical examinations (FDMEs) completed between 1 January 1992 and 31 December 1992 are presented in this 1992 monograph of the U.S. Army Aviation Epidemiology Data Registry (AEDR).

The FDME has served for many years as the principal means of collecting routine medical information on aviators. While all U.S. military services require trained aviators to undergo annual FDMEs, they have been modified by each service to the extent necessitated by the particular needs of that service. Nevertheless, all services' FDMEs conform closely in content and arrangement. The FDME is an evolving mechanism of medical information. It changes over time to ensure better reporting and accuracy, to the extent that some items even are discontinued and others are added.

Within the U.S. Army, all FDMEs are sent to the U.S. Army Aeromedical Activity, Fort Rucker Alabama (USAAMA) for centralized review and disposition. FDMEs are coded via ICD9 (International classification of diseases, clinical modification, 9th revision) procedures and other specialized coding methods that are unique to the military. Before 1986, no centralized database of FDMEs existed. However, beginning in 1986, the U.S. Army Aeromedical Laboratory (USAARL) has maintained a computerized database of all U.S. Army FDMEs processed by USAAMA. This initiated for the first time, FDME data being made available for epidemiological research.

#### <u>Purpose</u>

The purpose of this monograph is to provide the reader with summary statistics from the AEDR database. These descriptive statistics are limited to class 2/2A FDMEs completed during calendar year 1992. We present these data with little discussion so as to encourage comparisons with other monographs.

General rules for the AEDR monographs

- 1. The data are restricted to class 2/2A FDMEs and to active duty Army, reserve, and National Guard components.
- 2. Calendar year is defined as 1 January through 31 December.
- 3. Gender is defined as the gender reported on the FDME.

- 4. The age reported is computed based upon birth date and FDME date.
- 5. With respect to the age groupings, the age is based upon the age of the person in completed years.
- 6. Tables exclude FDMEs with missing values. Consequently, for each table the total number of FDMEs is somewhat greater than the total reported in the table.
- 7. Minimum and maximum values for applicable fields are set at  $\pm$  4 standard deviations.
- 8. Missing values within a table is not included in the totals or percentages.

## Reference

Department of Health and Human Services. 1989. <u>International classification of diseases</u>, clinical modification, 9th revision, 3rd ed. Washington, DC.

Appendix A.

Tables A-1 through A-51.

Table A-1.

Required items for class 2 and class 2A FDME.

	Class 2	Class 2A	Minimum, maximum values
Arrival date	x	x	
Last name	X	X	
Grade	X	X	
Component	X	X	
Social Security number	X	X	
Date of physical	X	X	
Sex	X	X	
Race	X	X	
Organizational unit	x	X	
Birth date	x	X	
Exam facility code	X	X	
Return address code	x	x	
Urine specific gravity	x	44	1.000,1.053
Urine albumin	X		1.000,1.033
Urine sugar	X		
Urine microscopic	X		
EKG ICD9 code	X	x	
Hematocrit vol %	X	X	37,57
Height	X	x	
	X	X	60,80
Weight	Α.	Α.	94,261
Systolic blood pressure	v	v	77 161
(sitting)	X	X	77,161
Diastolic blood pressure	••	••	
(sitting)	X	X	42,109
Pulse (sitting)	X		30,103
Glasses	X	X	
Distant vision right	X	X	
Distant vision left	X	X	
Refraction exam type	X		
Near vision right	X	X	
Near vision left	X	X	
Esophoria	X		
Exophoria	X		
Right hyperphoria	X		
Left hyperphoria	X		
Depth perception	X		
Night vision	X		

Table A-1 (Continued).

	Class 2	Class 2A	Minimum, maximum values
Audio right 500	x	X	
Audio left 500	X	X	
Audio right 1000	X	X	
Audio left 1000	X	X	
Audio right 2000	X	X	
Audio left 2000	X	X	
Audio right 3000	X	X	
Audio left 3000	X	X	
Audio right 4000	X	X	
Audio left 4000	X	X	
Audio right 6000	X	X	
Audio left 6000	X	X	•
Flight surgeon	X	X	
Flight surgeon status	X	X	
Valsalva	X		
Dental exam	X		
Cholesterol	X	X	100,400

Table A-2.

Demographic data.

	<u>Activ</u>	e duty		Reserve		<u>National</u>	National Guard	
	N*	*		N*	*	N*	8	
Male	10,471	97.3		1,080	97.4	5,190	98.1	
Female	289	2.7		29	2.6	102	1.9	
Total	10,760			1,109		5,292		
* Missing	(not incl	uded)						
Race	N		<b>*</b> *					
Caucasian Black	16,21		94.9					
DIACK	49	<u> </u>	2.9					

Caucasian	16,217	94.
Black	490	2.
Oriental	95	0.
Other	294	1.
Missing	76	
•	17,172	

<sup>\*</sup> Missing (not included in percent)

Table A-3. Age group stratified by gender and component (N=17,161).

Age group		ve duty 10,760) %	Res (N=1 N*	erve ,109) <b>%</b>	National (N=5 N*	Guard ,292) %
			Male			
≤ 24	875	8.4	44	4.1	135	2.6
25-29	2902	27.7	216	20.0	1097	21.1
30-34	2796	26.7	241	22.3	1109	21.4
35-39	1820	17.4	151	14.0	599	11.5
40-44	1465	14.0	213	19.7	1076	20.7
45-49	518	4.9	174	16.1	930	17.9
≥ 50	95	0.9	41	3.8	244	4.7
Overall	10471		1080		5190	
			<u>Female</u>			
<b>≤ 24</b>	42	14.5	2	6.9	2	2.0
25-29	120	41.5	7	24.1	29	28.4
30-34	85	29.4	9	31.0	40	39.2
35-39	32	11.1	9	31.0	26	25.5
40-44	7	2.4	2	6.9	4	3.9
45-49	3	1.0	0	•	1	1.0
≥ 50	None					
Overall	289		29		102	
* Missing	(not inc	cluded)				

Table A-4.

Urine specific gravity stratified by gender, age group, and component (N=15,156).

Age		tive du N=9,135			Reserv (N=1,06		National Guard (N=4,959)			
group	•	Mean	sD	N	Mean	SD	N	Mean	SD	
				Mal	<b>Q</b>	· · · · · · · · · · · · · · · · · · ·				
≤ 24	720	1.019	.007	41	1.018	.008	112	1.017	.007	
25-29	2148	1.018	.007	197	1.018	.008	971	1.017	.007	
30-34	2197	1.018	.007	224	1.018	.008	968	1.018	.007	
35-39	1790	1.018	.008	149	1.017	.007	586	1.017	.007	
40-44	1448	1.017	.008	210	1.018	.007	1066	1.017	.007	
45-49	512	1.017	.008	173	1.018	.007	924	1.017	.007	
<u>≥</u> 50	93	1.018	.007	41	1.018	.007	241	1.017	.007	
Total	8908	1.018	.007	1035	1.018	.007	4868	1.017	.007	
				Fema:	<u>le</u>					
≤ 24	35	1.019	.007	2	1.021	.009	2	1.022	.003	
25-29	83	1.017	.008	7	1.013	.009	23	1.016	.006	
30-34	67	1.015	.007	7	1.018	.008	36	1.015	.009	
35-39	32	1.017	.009	9	1.016	.009	25	1.013	.005	
40-44	7	1.011	.006	2	1.016	.006	4	1.017	.006	
45-49	3	1.011	.010	Ę	•	•	1	1.010	•	
<u>≥</u> 50	None	:								
Total	227	1.015	.008	27	1.017	.008	91	1.015	.006	

Table A-5.

Hematocrit stratified by gender, age group, and component (N=16,368).

Age grou	(1	ctive duty (N=10,515) Mean SD		N	Reserv (N=1,04 Mean	<del>4</del> )	<u>Nat</u> N	ional G (N=4,80 Mean	
				Male					
≤ 24	867	45.5	2.5	44	45.3	2.8	121	46.2	2.8
25-29	2877	45.3	2.5	207	45.3	2.5	1019	45.8	2.6
30-34	2734	45.3	2.4	232	45.5	2.5	1000	45.6	2.4
35-39	1770	45.3	2.6	139	45.3	2.4	564	45.9	2.5
40-44	1400	45.4	2.6	204	45.3	2.5	962	45.6	2.7
45-49	499	45.2	2.6	155	45.5	2.6	834	45.6	2.6
≥ 50	91	45.2	3.1	35	46.2	2.1	222	45.4	2.7
Total	10238	45.3	2.6	1016	45.5	2.5	4722	45.7	2.6
				Fema.	<u>Le</u>				
≤ 24	40	41.4	2.9	2	39.0	2.8	2	40.0	2.8
25-29	117	40.3	2.7	7	39.7	2.3	25	41.1	2.8
30-34	80	40.5	2.3	8	41.4	3.7	33	41.5	2.5
35-39	31	40.9	2.0	9	41.1	2.5	23	41.5	3.6
40-44	6	41.3	4.8	2	39.0	4.2	4	42.0	1.8
45-49	3	39.7	1.1	0	•	•	0	•	•
<u>≥</u> 50	None								
Total	277	40.7	2.6	28	40.0	3.1	87	41.2	2.7

Table A-6.

Statutory height (inches) stratified by gender, age group, and component (N=17,136).

Age group	(1	tive dut N=10,74: Mean		N	Reserve (N=1,108 Mean		National Guard (N=5,287) N Mean SD		
				Male	2				
≤ 24	873	70.5	2.4	44	71.0	2.1	135	70.4	2.5
25-29	2897	70.6	2.5	216	71.0	2.3	1096	70.6	2.5
30-34	2792	70.7	2.5	241	70.8	2.5	1109	70.7	2.4
35-39	1816	70.8	2.5	151	71.0	2.4	598	70.9	2.4
40-44	1464	70.6	2.5	213	70.7	2.5	1076	70.8	2.4
45-49	516	70.6	2.4	174	70.4	2.4	928	70.7	2.5
≥ 50	95	70.0	2.6	41	69.6	2.6	244	70.6	2.4
Total	10453	70.5	2.5	1080	70.6	2.4	5186	70.6	2.4
				<u>Femal</u>	<u>.e</u>				
≤ 24	42	66.4	1.7	1	68.0	•	2	66.0	1.4
25-29	119	66.1	2.3	7	67.6	2.7	29	65.4	2.1
30-34	85	66.1	2.2	9	67.7	3.1	39	66.5	2.7
35-39	32	65.9	2.1	9	66.3	2.2	26	65.5	2.0
40-44	7	65.6	3.2	2	66.5	.7	4	64.2	2.2
45-49	3	63.7	1.5	0	•	•	1	69.0	•
≥ 50	None								
Total	288	65.6	2.2	28	67.2	2.2	101	66.1	2.1

Table A-7.

Body mass (in lbs) stratified by gender, age group, and component (N=17,143).

Age	(	tive du N=10,74	7)		Reserv (N=1,10	8)	National Guard (N=5,288) N Mean SD		
group	N	Mean	SD	N	Mean	SD	N	mean	
				Mal	2				
≤ 24	875	172.0	19.8	44	177.5	19.1	135	171.3	19.8
25-29	2900	174.9	19.8	216	177.3	18.9	1095	176.9	20.7
30-34	2793	178.7	20.4	241	179.8	21.4	1108	179.2	20.9
35-39	1815	181.3	20.5	151	182.9	21.5	599	182.6	20.2
40-44	1465	182.5	20.4	212	184.8	19.5	1075	184.4	21.5
45-49	515	183.0	19.2	174	182.1	20.2	930	184.1	20.5
<u>≥</u> 50	95	177.3	19.9	41	177.3	18.6	244	183.7	20.0
Total	10458	178.5	20.0	1079	180.2	19.9	5186	180.3	20.5
				<u>Fema</u>	<u>le</u>				
≤ 24	42	135.3	11.6	2	128.0	8.5	2	135.0	0.0
25-29	120	136.0	12.9	7	146.9	14.1	29	131.6	13.4
30-34	85	137.1	15.4	9	150.7	20.0	40	141.7	21.1
35-39	32	142.9	21.6	9	153.0	19.1	26	139.0	14.3
40-44	7	143.7	24.2	2	141.0	32.5	4	136.2	10.9
45-49	3	140.0	27.5	0	•	•	1	149.0	•
<u>≥</u> 50	None								
Total	289	139.2	18.9	29	143.9	18.8	102	138.7	11.9

Table A-8.

Body mass index\* stratified by gender, age group, and component (N=17,147).

Age		<u>ive du</u> =10,74			Reserve		National Guard (N=5,292)			
grou	•	Mean	SD	N	Mean	SD	N	Mean	SD	
			_	Mal	ę					
≤ 24	875	24.3	2.2	44	24.8	2.6	135	24.3	2.	
25-29	2899	24.7	2.2	216	24.8	2.1	1097	25.0	2.	
30-34	2793	25.1	2.3	241	25.3	2.4	1109	25.2	2.	
35-39	1815	25.5	2.2	151	25.5	2.4	599	25.6	2.	
40-44	1465	25.7	2.2	213	26.1	2.1	1076	25.9	2.	
45-49	515	25.8	2.1	174	25.9	2.0	930	25.9	2.	
≥ 50	95	25.4	2.1	41	25.7	1.8	244	25.9	2.	
Total	10457	25.2	2.2	1080	25.4	2.2	5190	25.4	2.	
				<u>Fema</u>	<u>le</u>					
≤ 24	42	21.6	1.5	2	24.9	8.9	2	21.8	• 9	
25-29	120	22.0	2.1	7	22.7	2.7	29	21.6	1.	
30-34	85	22.1	2.0	9	23.2	3.2	40	22.7	2.	
35-39	32	23.1	2.6	9	24.4	2.2	26	22.9	2.	
40-44	7	23.4	2.0	2	22.4	4.7	4	23.2	1.	
45-49	3	24.2	3.7	0	•	•	1	22.0	•	
<u>&gt;</u> 50	None									
Total	289	22.7	2.3	29	23.5	4.3	102	22.4	1.	
* BMI =	weight	(kg)								
	2 height	(m)								

Table A-9.

Systolic blood pressure (mm Hg): sitting stratified by gender, age group, and component (N=17,087).

Age		tive du N=10,72			Reserv (N=1,08		National Guard (N=5,274)						
group	•	Mean	SD	N	Mean SD		N	Mean	SD				
	Male												
≤ 24	873	119.5	10.3	43	120.6	11.5	135	116.2	10.4				
25~29	2895	119.3	10.4	213	120.2	10.4	1095	119.3	9.9				
30-34	2787	119.5	10.7	234	120.2	10.7	1104	118.1	9.9				
35-39	1812	119.8	10.7	148	119.5	10.3	598	119.0	10.2				
40-44	1461	120.2	10.7	208	120.6	11.2	1072	119.7	10.3				
45-49	516	121.3	11.5	171	120.4	11.2	925	120.2	10.6				
≥ 50	94	123.1	10.4	41	123.2	13.1	244	122.9	10.6				
Total	10438	120.4	10.7	1058	120.7	11.2	5173	119.3	10.3				
				<u>Fema</u>	<u>le</u>								
≤ 24	42	107.8	9.0	2	108.0	5.7	2	107.0	4.2				
25-29	119	109.6	9.8	7	106.0	6.0	29	110.0	11.7				
30-34	85	111.0	10.4	9	106.6	7.9	39	112.0	10.2				
35-39	32	112.8	10.7	9	118.4	15.3	26	110.1	10.6				
40-44	7	119.1	12.9	2	105.0	7.1	4	116.0	12.0				
45-49	3	114.7	9.9	0	•	•	1	108.0	•				
≥ 50	None												
Total	288	112.5	10.4	29	108.8	8.4	101	110.5	9.7				

Table A-10.

Diastolic blood pressure (mm Hg): sitting stratified by gender, age group, and component (N=17,081).

<b>N</b>		ive du			Reserv		National Guard (N=5,273)		
Age group	•	N=10,720 Mean	SD	N	(N=1,08) Mean	•	N	Mean	SD
							_	· · · · · · · · · · · · · · · · · · ·	
				Mal	<u>e</u>				
≤ 24	873	70.5	9.2	43	72.0	9.5	134	71.8	9.2
25-29	2894	72.1	8.9	213	75.4	8.8	1095	75.3	8.1
30-34	2786	73.5	8.6	234	75.6	8.3	1104	75.6	7.8
35-39	1809	74.7	8.8	148	75.2	8.4	598	77.2	7.6
40-44	1461	75.7	8.7	208	77.4	8.5	1071	77.6	7.8
45-49	516	76.7	9.2	172	77.0	9.1	926	78.0	7.6
<u>≥</u> 50	94	77.3	8.7	41	77.3	8.7	244	78.8	8.0
Total	10433	74.4	8.9	1059	75.7	8.8	5172	76.3	8.0
				Fema.	<u>le</u>				
≤ 24	42	63.6	8.0	2	74.0	0.0	2	64.0	5.6
25-29	119	66.9	8.3	7	70.0	9.5	29	70.8	8.6
30-34	85	68.5	8.7	9	68.9	5.7	39	72.4	7.7
35-39	31	70.8	8.3	9	69.0	11.1	26	71.2	7.7
40-44	7	71.7	9.1	2	68.0	0.0	4	80.0	1.6
45-49	3	68.7	3.5	0	•	•	1	76.0	•
<u>≥</u> 50	None								
Total	287	68.4	7.6	29	70.0	5.3	101	72.4	6.2

Table A-11.

Elevated bp\* for males stratified by age group and component (N=16,655).

Age grou	N					rve eeting inition	Nat: N	N I	<u>Guard</u> Meeting Minition
≤ 24	872	22	(2.5)**	43	2	(4.7)**	134	5	(3.7)**
25-29	2892	87	(3.0)	213	11	(5.2)	1095	39	(3.5)
30-34	2784	100	(3.6)	234	13	(5.6)	1103	52	(4.7)
35-39	1809	93	(5.1)	148	9	(6.1)	598	31	(5.2)
40-44	1460	78	(5.4)	208	14	(6.7)	1071	75	(7.0)
45-49	516	49	(9.5)	171	13	(7.6)	925	76	(8.2)
<u>≥</u> 50	94	8	(8.5)	41	4	(9.8)	244	21	(8.6)
Total	10427	437	(4.2)	1058	66	(6.2)	5170	299	(5.8)

<sup>\*</sup> Elevated blood pressure defined as individuals

 $<sup>\</sup>geq$  140 systolic bp and/or  $\geq$  90 diastolic bp

<sup>\*\*</sup> indicates percent of individuals meeting elevated bp definition

Table A-12.

Pulse: sitting stratified by gender, age group, and component (N=14,827).

Age		<u>ive du</u> =8,963			Reserv (N=1,03		National Guard (N=4,827)			
group		Mean	, SD	N	Mean		N .	Mean	SD	
				Male	 }	<del>"                                    </del>				
≤ 24	684	64.5	9.3	42	64.8	9.5	107	64.8	8.8	
25-29	2097	65.1	9.4	183	66.1	9.1	912	66.3	8.7	
30-34	2123	65.5	9.6	217	66.1	8.7	898	66.8	8.7	
35-39	1779	66.1	9.3	147	67.2	8.9	597	65.7	8.6	
40-44	1444	66.6	9.3	209	68.2	9.3	1067	67.1	8.8	
45-49	513	67.1	10.4	171	67.1	8.6	919	67.3	9.4	
≥ 50	91	66.8	11.3	41	68.1	10.3	239	67.5	9.1	
Total	8731	66.0	9.8	1010	66.8	9.2	4739	66.5	8.9	
				<u>Femal</u>	<u>.e</u>					
≤ 24	38	66.3	7.4	2	69.0	21.2	2.	64.0	5.7	
25-29	86	64.5	9.6	7	66.0	11.5	22	67.9	9.2	
30-34	66	66.0	8.5	7	68.7	11.3	33	64.5	9.5	
35-39	32	69.1	10.0	9	67.5	10.4	26	70.8	9.2	
40-44	7	64.9	7.7	2	74.0	2.8	4	70.0	7.7	
45-49	3	70.3	11.7	0	•	•	1	72.0	•	
<u>&gt;</u> 50	None									
Total	232	66.8	9.1	27	69.0	11.4	88	68.2	8.3	

Table A-13.

Total serum cholesterol stratified by gender, age group, and component (N=17,069).

Age		tive du N=10,69			Reserv		Nat	ional G (N=5,27	
group	•	Mean	SD	N	Mean	-	N	Mean	SD
		<del> </del>	<del></del>			<del></del>			<del></del>
				Mal	<u>e</u>				
≤ 24	869	171.8	31.0	43	178.5	30.6	133	170.2	29.2
25-29	2886	180.0	33.8	213	181.4	34.3	1091	179.5	32.7
30-34	2779	188.4	36.3	238	190.3	33.9	1100	188.5	36.0
35-39	1810	198.9	35.9	150	199.6	35.7	599	195.6	32.2
40-44	1459	203.6	34.6	213	202.5	31.9	1073	201.0	34.4
45-49	515	210.2	37.0	174	205.8	33.1	930	203.1	34.1
≥ 50	95	210.9	34.2	41	213.3	<b>37.</b> 5	243	202.9	31.8
Total	10413	194.8	34.7	1072	195.9	33.9	5169	191.5	32.9
				<u>Fema</u>	<u>le</u>				
≤ 24	41	182.3	31.9	2	198.0	22.6	2	157.0	12.7
25-29	118	175.8	33.7	7	187.3	33.5	29	192.4	37.4
30-34	84	178.5	29.9	8	190.1	35.9	40	183.3	30.4
35-39	32	184.3	28.3	9	187.9	37.7	26	178.3	21.3
40-44	7	178.3	24.4	2	182.0	8.5	4	189.5	7.2
45-49	3	203.7	56.2	0	•	•	1	195.0	•
<u>&gt;</u> 50	None	:							
Total	285	183.8	34.1	28	189.1	27.6	102	182.6	21.8

Table A-14.

Elevated\* total serum cholesterol stratified by gender, age group, and component (N=17,069).

Age grouj	Active duty (N=10,698) N N Meeting p definition			_			National Guard (N=5,271) N N Meeting definition		
				<u>Ma</u>	<u>le</u>				
≤ 24	869	158	(18.2)**	43	11	(25.6)**	133	22	(16.5)**
25-29	2886	755	(26.2)	213	53	(24.9)	1091	286	(26.2)
30-34	2779	991	(35.7)	238	89	(37.4)	1100	382	(34.7)
35-39	1810	843	(46.6)	150	66	(44.0)	599	257	(42.9)
40-44	1459	763	(52.3)	213	109	(51.9)	1073	541	(50.4)
45-49	515	305	(59.2)	174	101	(58.0)	930	508	(54.6)
≥ 50	95	56	(58.9)	41	27	(65.9)	243	127	(52.3)
Total	10413	3871	(37.2)	1072	456	(42.5)	5169	2123	(41.1)
				<u>Fem</u>	ale				
≤ 24	41	10	(24.4)	2	1	(50.0)	2	0	•
25-29	118	26	(22.0)	7	3	(42.9)	29	11	(37.9)
30-34	84	19	(22.6)	8	3	(37.5)	40	11	(27.5)
35-39	32	11	(34.4)	9	3	(33.3)	26	3	(11.5)
40-44	7	2	(28.6)	2	0	•	4	0	•
45-49	3	2	(66.7)	0	0	•	1	0	•
≥ 50	None	•							
Total	285	70	(24.6)	28	10	(35.7)	102	25	(24.5)

<sup>\*</sup> Elevated cholesterol are individuals with cholesterol  $\geq$  200

<sup>\*\*</sup> Percent individuals with cholesterol ≥ 200

Table A-15.

Corrective lenses stratified by gender, age group, and component (N=17,138).

Active duty (N=10,746) Age Freq %				Reser (N=1,1		National Guar (N=5,285)			
Age group	) N*	Freq wear		N*	Freq wear	wear	N*	Freq wear	
				Male	2				
≤ 24	874	55	6.3	44	7	15.9	135	9	6.7
25-29	2899	296	10.2	215	26	12.1	1096	143	13.0
30-34	2795	367	13.1	241	25	10.4	1108	167	15.1
35-39	1817	358	19.7	151	31	20.5	598	134	22.4
40-44	1459	696	47.7	212	110	51.9	1075	511	47.5
45-49	518	452	87.3	174	139	79.9	928	786	84.7
≥ 50	95	94	98.1	41	40	97.6	244	238	97.5
Overall	10457	2318	22.2	1078	378	35.1	5184	1988	38.3
				<u>Fema</u> ]	<u>Le</u>				
≤ 24	42	4	9.5	2	1	50.0	2	0	0.0
25-29	120	16	13.3	7	2	28.6	29	7	24.1
30-34	85	15	17.6	9	1	11.1	39	8	20.5
35-39	32	7	21.9	9	2	22.2	26	5	19.2
40-44	7	3	42.9	2	1	50.0	4	2	50.0
45-49	3	3	100.0	0	0	•	1	1	100.0
<u>≥</u> 50	None	2							
Overall	289	48	16.6	29	7	24.1	101	23	22.8
* Missing	, not	inclu	ded						

Table A-16.

Male right eye distant vision stratified by age group and component (N=16,716).

Age DVR** group		Active duty (N=10,453) N %		Reserve (N=1,079) N %		National Guard (N=5,184) N	
≤ 24	< 20 20 21 - 40	69 760 39	7.9 87.0 4.5	1 38 4	2.3 86.4 9.1	11 117 6	8.1 86.7 4.4
	41 - 70 > 70 M*	5 1 1	0.6	1 0 0	2.3	1 0 0	.7
25-29	< 20 20 21 - 40 41 - 70 > 70 M*	263 2396 171 51 19	9.1 82.6 5.9 1.8 0.7	12 182 13 6 3	5.6 84.3 6.0 2.8 1.4	115 855 88 25 13	10.5 78.0 8.0 2.3 1.2
30-34	< 20 20 21 - 40 41 - 70 > 70 M*	248 2255 196 65 30 2	8.9 80.7 7.0 2.3 1.1	12 206 13 7 3	5.0 85.5 5.4 2.9 1.2	129 832 89 34 24	11.6 75.1 8.0 2.3 1.2
35-39	< 20 20 21 - 40 41 - 70 > 70 M*	136 1410 185 53 35	7.5 77.5 10.2 2.9 1.9	12 117 14 7 1	7.9 77.5 9.3 4.6 0.7	62 428 65 29 14	10.4 71.6 10.9 4.8 2.3

Table A-16 (continued).

		Active duty		Res	erve	National Guard	
Age group	DVR	N	8	N	*	N	*
40-44	< 20	94	6.5	4	1.9	105	9.8
	20	991	68.1	138	69.8	710	66.0
	21 - 40	212	14.6	30	14.2	127	11.8
	41 - 70	86	5.9	17	8.0	76	7.1
	> 70	72	4.9	13	6.1	57	5.3
	Ä*	10		1		1	
45-49	< 20	23	4.5	7	4.0	56	6.0
	20	298	57.8	104	59.8	499	53.8
	21 - 40	102	19.8	34	19.5	191	20.6
	41 - 70	47	9.1	19	10.9	110	11.9
	> 70	46	8.9	10	5.7	72	7.8
	M*	2		0		2	
<u>&gt;</u> 50	< 20	3	3.2	1	2.4	9	3.7
_	20	36	37.9	19	46.3	105	43.0
	21 - 40	32	33.7	12	29.3	74	30.3
	41 - 70	15	15.8	4	9.8	37	15.2
	> 70	9	9.5	5	12.2	19	7.8
	M*	0		0		0	

<sup>\*</sup> Missing (not included in totals or percentages)

<sup>\*\*</sup> English Snellen linear system

Table A-17.

Male left eye distant vision stratified by age group and component (N=16,716).

Age	DVL**	(N=	Active duty (N=10,453)		<u>Reserve</u> (N=1,079)		Guard (,184)
group		N	*	N	*	N	*
≤ 24	< 20	72	8.2	2	4.5	12	8.9
<del>-</del>	20	757	86.6	38	86.4	115	85.2
	21 - 40	39	4.5	3	6.8	8	5.9
	41 - 70	6	0.7	1	2.3	0	•
	> 70	0	•	0	•	0	•
	M*	1		0		0	
25-29	< 20	268	9.2	12	5.6	131	12.0
	20	2375	81.9	179	82.9	838	76.5
	21 - 40	191	6.6	15	6.9	90	8.2
	41 - 70	45	1.6	9	4.2	27	2.5
	> 70	20	0.7	1	0.5	10	0.9
	M*	3		0		1	
30-34	< 20	257	9.2	12	5.0	138	12.5
	20	2239	80.1	210	87.1	833	75.2
	21 - 40	209	7.5	7	2.9	75	6.8
	41 - 70	58	2.1	7	2.9	37	3.3
	> 70	31	1.1	5	2.1	25	2.3
	W*	1		0		1	
35-39	< 20	153	8.4	13	8.6	67	11.2
33 33	20	1391	76.5	114	75.5	427	71.4
	21 - 40	175	9.6	16	10.6	62	10.4
	41 - 70	64	3.5	6	4.0	32	5.4
	> 70	36	2.0	2	1.3	10	1.7
	M*	1		ō		1	/

Table A-17 (Continued).

Age group	DVL	<u>Acti</u> N	ve duty	Res N	erve \$	National N	Guard }
40-44	< 20	105	7.2	5	2.4	118	11.0
	20	982	67.5	144	67.9	697	64.8
	21 - 40	207	14.2	38	17.9	140	13.0
	41 - 70	93	6.4	14	6.6	66	6.1
	> 70	68	4.7	11	5.2	54	5.0
	M*	10		1		1	
45-49	< 20	26	5.0	7	4.0	72	7.8
	20	302	58.4	104	59.8	508	54.7
	21 - 40	103	19.9	36	20.7	174	18.8
	41 - 70	44	8.5	15	8.6	100	10.8
	> 70	42	8.1	12	6.9	74	8.0
	M*	1		0		2	
≥ 50 ·	< 20	4	4.2	2	4.9	10	4.1
2 30	20	36	37.9	22	53.7	111	45.5
	21 - 40	31	32.6	8	19.5	62	25.4
	41 - 70	12	12.6	4	9.8	45	18.4
	> 70	12	12.6	5	12.2	16	6.6
	M*	0	12.0	ő		0	0.0
	Pl."	U		•		U	

<sup>\*</sup> Missing (not included in totals or percentages)

<sup>\*\*</sup> English Snellen linear system

Table A-18.

Male right eye near vision stratified by age group and component (N=16,682).

Age 1	NVR**		<u>/e duty</u> L0,434)		<u>serve</u> 1,078)	National (N=5	<u>Guard</u> ,170)
group		Ŋ	*	N	*	N	*
≤ 24 <	20	61	7.0	1	2.3	8	5.9
20		803	92.0	40	90.9	124	91.9
	1 - 40	9	1.0	3	6.8	3	2.2
	1 - 70	0	•	0	•	0	•
	70	0	•	0	•	0	•
M	*	2		0		• 0	
25-29 <	20	208	7.2	10	4.6	84	7.7
20		2625	90.7	205	94.9	988	90.5
	1 ~ 40	58	2.0	1	0.5	19	1.7
4:	1 - 70	4	0.1	0	•	1	0.1
>	70	0	•	0	•	0	•
M	*	7		0		5	
30-34 <	20	182	6.5	9	3.7	111	10.0
20		2522	90.4	223	92.5	962	87.0
	1 - 40	76	2.7	8	3.3	30	2.7
	1 - 70	9	0.3	ī	.4	Ō	•
_	70	0	•	Ō	•	3	0.3
M	*	7		0		3	
35-39 <	20	106	5.8	11	7.3	47	7.9
20-39 \		1600	88.2	133	88.1	509	85.1
	1 - 40	90	5.0	6	4.0	34	5.7
	1 - 70	15	0.8	ì	0.7	4	0.7
	70	3	0.2	ō	•	4	0.7
M:		6	<b>V12</b>	ŏ	•	ī	<b>U.</b> /

Table A-18 (Continued).

Age group	NVR	<u>Acti</u> N	ve duty	<u>Re</u> : ห	serve }	National N	Guard %
40-44		39	2.7	3	1.4	43	4.0
	20	989	68.0	137	64.6	691	64.4
	21 - 40	250	17.2	46	21.7	202	18.8
	41 - 70	117	8.0	19	9.0	91	8.5
	> 70	59	4.1	7	3.3	46	4.3
	M*	11		1		3	
45-49	< 20	4	0.8	1	0.6	6	0.7
	20	134	26.0	56	32.4	252	27.3
	21 - 40	146	28.3	34	19.7	220	23.8
	41 - 70	118	22.9	36	20.8	230	24.9
	> 70	113	21.9	46	26.6	215	23.3
	M*	3		1		7	
<u>&gt;</u> 50	< 20	1	1.1	1	2.4	1	0.4
_	20	7	7.4	1 3	7.3	18	7.4
	21 - 40	21	22.3	8	19.5	36	14.8
	41 - 70	14	14.9	9	22.0	60	24.7
	> 70	51	54.3	20	48.8	128	52.7
	M*	1		0		1	

<sup>\*</sup> Missing (not included in totals or percentages)

<sup>\*\*</sup> English Snellen linear system

Table A-19.

Male left eye near vision stratified by age group and component (N=16,672).

Age group	NVL**	$L^{**}$ (N=10,430) (N=1,078)		(N=10,430) $(N=1,078)$			onal Guard (N=5,164) N %	
≤ 24	< 20 20 21 - 40 41 - 70 > 70 M*	60 802 11 0 0	6.9 91.9 1.3	1 42 1 0 0	2.3 95.5 2.3	9 122 3 0 0	6.7 91.0 2.2	
25-29	< 20 20 21 - 40 41 - 70 > 70 M*	211 2617 60 4 1	7.3 90.5 2.1 0.1	11 203 2 0 0	5.1 94.0 0.9	80 992 18 1 1	7.3 90.8 1.6 0.1	
30-34	< 20 20 21 - 40 41 - 70 > 70 M*	182 2535 66 4 0	6.5 91.0 2.4 0.1	7 228 6 0 0	2.9 94.6 2.5	98 970 32 3 2 4	8.9 87.8 2.9 0.3 0.2	
35-39	< 20 20 21 - 40 41 - 70 > 70 M*	102 1601 93 15 3	5.6 88.3 5.1 0.8 0.2	9 132 9 1 0	6.0 87.4 6.0 0.7	53 510 28 4 3	8.9 85.3 4.7 0.7	

Table A-19 (Continued).

Age group	NVL	<u>Acti</u> N	ve duty	<u>Re</u> : N	serve }	National N	Guard %
40-44	< 20 20	40 997	2.8 68.6	3 146	1.4 68.9	49 700	4.6 65.3
	21 - 40 $41 - 70$	250 106	17.2	39 20	18.4	194 82	18.1 7.6
	41 - 70 > 70 M*	61 11	7.3 4.2	4 1	9.4 1.9	47 4	4.4
45-49	< 20 20 21 - 40 41 - 70 > 70 M*	3 141 153 99 119	0.6 27.4 29.7 19.2 23.1	0 52 43 36 42 1	30.1 24.9 20.8 24.3	10 250 220 201 239 10	1.1 27.2 23.9 21.8 26.0
≥ 50	< 20 20 21 - 40 41 - 70 > 70 M*	1 8 19 15 51	1.1 8.5 20.2 16.0 54.3	1 3 8 11 18 0	2.4 7.3 19.5 26.8 43.9	2 16 33 70 122 1	.8 6.6 13.6 28.8 50.2

<sup>\*</sup> Missing (not included in totals or percentages)

<sup>\*\*</sup> English Snellen linear system

Table A-20.

Female right eye distant vision stratified by age group and component (N=419).

Age	DVR**	Active duty (N=289) N %		Reserve (N=29) N %		National Guard (N=101)	
group		N	•	N	•	N	*
≤ 24	< 20 20 21 - 40 41 - 70 > 70	3 36 2 1	7.1 85.7 4.8 2.4	0 2 0 0	100	0 2 0 0	100
	M*	0		0		0	
25-29	< 20 20 21 - 40 41 - 70 > 70 M*	12 95 10 3 0	10.0 79.2 8.3 2.5	0 5 1 1 0	71.4 14.3 14.3	3 22 2 1 1 0	10.3 75.9 6.9 3.4 3.4
30-34	< 20 20 21 - 40 41 - 70 > 70 M*	3 67 6 4 5	3.5 78.8 7.1 4.7 5.9	1 7 0 1 0	11.1 77.8	4 29 3 1 2	10.3 74.4 7.7 2.6 5.1
35-39	< 20 20 21 - 40 41 - 70 > 70 M*	1 26 5 0 0	3.1 81.3 15.6	1 8 0 0 0	11.1	2 19 2 1 2 0	7.7 73.1 7.7 3.8 7.7

Table A-20 (Continued).

			Active duty		Rese	Reserve		National Guard	
Age group	DVR		N	8	N	*	И	*	
40-44	< 20		2	28.6	0	•	0	•	
	20		3	42.9	2	100	3	75.0	
	25 -	40	2	28.6	0	•	1	25.0	
	45 -	70	0	•	0	•	0	•	
	> 70		0	•	0	•	0	•	
	M*		0		0		0		
45-49	< 20		0	•	None		. 0	•	
	20		2	67.7			1	100	
	21 -	40	0	•			0	•	
	41 -	70	0	•			0	•	
	> 70		1	33.3			0	•	
	M*		0				0		

<sup>≥ 50</sup> None

<sup>\*</sup> Missing (not included in totals or percentages)

<sup>\*\*</sup> English Snellen linear system

Table A-21.

Female left eye distant vision stratified by age group and component (N=419).

Age DVL** group		Active duty (N=289) N %		Reserve (N=29) N %		National Guard (N=101) N %	
					-		
≤ 24	< 20 20 21 - 40	3 35 2	7.1 83.3 4.8	0 1 0	50.0	0 2 0	100
	41 - 70 > 70 M*	2 0 0	4.8	1 0 0	50.0	0 0 0	•
25-29	< 20 20 21 - 40 41 - 70 > 70 M*	10 96 9 4 1	8.3 80.0 7.5 3.3 0.8	0 5 2 0 0	71.4 28.6	2 21 3 2 1 0	6.9 72.4 10.3 6.9 3.4
30-34	< 20 20 21 - 40 41 - 70 > 70 M*	5 66 6 4 4 0	5.9 77.6 7.1 4.7 4.7	1 7 0 1 0	11.1 77.8	3 28 4 3 1	7.7 71.8 10.3 7.7 2.6
35-39	< 20 20 21 - 40 41 - 70 > 70 M*	2 27 2 0 1	6.3 84.4 6.3 3.1	1 7 1 0 0	11.1 77.8 11.1	1 19 3 2 1	3.8 73.1 11.5 7.7 3.8

Table A-21 (Continued).

Age group	DVR		<u>Acti</u> N	ve duty	<u>Rese</u> N	rve }	National N	Guard %
40-44	< 20		2	28.6	0	•	1	25.0
	20		2	28.6	1	50.0	2	50.0
	25 -	40	2	28.6	1	50.0	1	25.0
	45 -	70	1	14.3	0	•	0	•
	> 70		0	•	0	•	0	•
	M*		0		0		0	
45-49	< 20		0	•	None		0	•
	20		2	66.7			1	100
	21 -	40	0	•			0	•
	41 -	70	0	•			0	•
	> 70		1	33.3			0	•
	M*		0				0	

<sup>≥ 50</sup> None

<sup>\*</sup> Missing (not included in totals or percentages)

<sup>\*\*</sup> English Snellen linear system

Table A-22.

Female right eye near vision stratified by age group and component (N=417).

Age	NVR**	Active duty (N=287)		Reserve (N=29)		<u>National</u> (N=1	
group	••••	и,	*	Ň	*	N	*
≤ 24	< 20	2	4.8	0	•	0	•
_	20	40	95.2	2	100	2	100
	21 - 40	0	•	0	•	0	•
	41 - 70	0	•	0	•	0	•
	> 70	0	•	0	•	0	•
	M*	O		0		0	
25-29	< 20	7	5.9	0		3	10.3
	20	108	90.8	7	100	23	79.3
	21 - 40	3	2.5	0	•	3	10.3
	41 - 70	1	0.8	0	•	0	•
	> 70	0	•	0	•	0	•
	M*	1		0		0	
30-34	< 20	5	5.9	0		3	7.7
	20	78	91.8	9	100	36	92.3
	21 - 40	2	2.4	Ō	•	0	
	41 - 70	ō	•	Ŏ	•	Ō	•
	> 70	0	•	Ō	•	0	•
	M*	O	-	0		1	•
35-39	< 20	2	6.5	0		3	11.5
-5 -5	20	26	83.9	8	88.9	22	84.6
	21 - 40	3	9.7	ĭ	11.1	ĩ	3.8
	41 - 70	Ö		ō		ō	•
	> 70	Ŏ	•	ō	•	Ŏ	•
	M*	ì	-	Ö	-	Ŏ	•

Table A-22 (Continued).

Age group	NVR		<u>Activ</u> N	ve duty	<u>Rese</u> N	rve }	National N	Guard *
40-44	< 20		0	•	0	•	0	•
	20		5	71.4	1	50.0	2	50.0
	21 -	40	2	28.6	0	•	2	50.0
	41 -	70	0	•	1	50.0	0	•
	> 70		0	•	0	•	0	•
	M*		0		0		0	
45-49	< 20		0	•	None		0	•
	20		1	33.3			0	•
	21 -	40	1	33.3			. 0	•
	41 -	70	1	33.3			0	•
	> 70		0	•			1	100
	M*		0				0	

<sup>≥ 50</sup> None

<sup>\*</sup> Missing (not included in totals or percentages)

<sup>\*\*</sup> English Snellen linear system

Table A-23.

Female left eye near vision stratified by age group and component (N=417).

Age	NVL**			<u>Reserve</u> (N=29)		National Guard (N=101)	
group		N	*	Ń	*	N	* *
≤ 24	< 20	2	4.8	0	•	0	•
_	20	40	95.2	2	100	2	100
	21 - 40	0	•	0	•	0	•
	41 - 70	0	•	0	•	0	•
	> 70	0	•	0	•	0	•
	M*	0		0		0	
25-29	< 20	9	7.6	0		2	6.9
	20	109	91.6	7	100	24	82.8
	21 - 40	0	•	0	•	3	10.3
	41 - 70	1	0.8	0	•	0	•
	> 70	0	•	0	•	0	•
	M*	1		0		0	
30-34	< 20	5	5.9	0		2	5.1
	20	78	91.8	9	100	36	92.3
	21 - 40	2	2.4	Ō	•	1	2.6
	41 - 70	0	•	0	•	0	•
	> 70	0	•	0	•	0	•
	M*	0		0		1	
35-39	< 20	2	6.5	0	_	1	3.8
	20	25	80.6	7	77.8	24	92.3
	21 - 40	4	12.9	2	22.2	1	3.8
	41 - 70	0	•	0	•	Ō	
	> 70	0	•	0	•	0	•
	M*	1		0		0	

Table A-23 (Continued).

Age	NVL	Active duty VL N %		Reserve N <b>*</b>		National Guard N %	
group							
40-44	< 20	0	•	0	•	0	•
	20	6	85.7	1	50.0	3	75.0
	21 - 40	1	14.3	0	•	1	25.0
	41 - 70	0	•	1	50.0	0	•
	> 70	0	•	0	•	0	•
	M*	0		0		0	
45-49	< 20	0	•	None		0	•
	20	1	33.3			0	•
	21 - 40	1	33.3			0	•
	41 - 70	0	•			0	•
	> 70	1	33.3			1	100
	M*	0				0	

<sup>≥ 50</sup> None

<sup>\*</sup> Missing (not included in totals or percentages)

<sup>\*\*</sup> English Snellen linear system

Table A-24.

Male hyperphoria stratified by age group and component (N=13,582).

	Hyper- phoria**		e duty ,973) %		erve ,000)	National (N=4 N	Guard ,609)
≤ 24		<u>.</u>					
-1.4 -1.0 5 .0 .0	50 to -1.50 19 to -1.01 10 to51 50 to01 10 to .01 10 to .50 10 to 1.50 10 to 2.50 10 to 2.50 10 to 2.50	5 0 11 38 463 53 20 5 4 276	0.8 1.8 6.3 77.3 8.8 3.3 0.8	0 0 2 30 6 1 0 0	5.1 76.9 15.4 2.6	0 0 3 6 80 10 1 0 0	3.0 6.0 80.0 10.0
25-29	9	2,0		J			
-1.4 -1.0 5 .0 .0	50 to -1.50 69 to -1.01 60 to51 60 to01 60 to .01 62 to .50 61 to 1.00 61 to 1.50 61 to 2.50 61 to 2.50 61 to 2.50	8 0 63 160 1304 124 60 2 7 1174	0.5 3.6 9.3 75.5 7.2 3.5 0.1	0 0 5 17 138 17 2 1 0	2.8 9.4 76.7 9.4 1.1 0.6	2 0 24 65 658 88 15 4 1	0.2 2.8 7.6 76.8 10.3 1.8 0.5
30-34							
-1.4 -1.0 5 .0 .0	50 to -1.50 9 to -1.01 00 to51 50 to01 00 to .01 02 to .50 61 to 1.00 01 to 1.50 61 to 2.50 65 to 2.50 65 to 2.50	3 0 53 154 1415 131 60 11 4	0.2 2.9 8.4 77.3 7.2 3.3 0.6	1 0 1 18 175 15 4 0	0.5 .5 8.4 81.8 7.0 1.9	3 0 17 56 632 109 23 3 1	0.4 2.0 6.6 74.9 12.9 2.7 0.4 0.1

Table A-24 (Continued).

•	**************************************	Activ	e duty	Res	erve	National	Guard
Age group	Hyper- phoria**	N	*	N	*	N	*
35-39							
	0 to -1.50	6	0.3	1	0.7	1	0.2
	9 to -1.01	0	• _	0	•	0	•
	0 to51	44	2.5	3	2.0	15	2.5
	0 to01	169	9.6	14	9.4	34	5.8
	0 to .01	1332	75.5	117	78.5	456	77.3
	2 to .50	156	8.8	13	8.7	71	12.0
	1 to 1.00 1 to 1.50	43	2.4	1	0.7	13	2.2
	1 to 1.50 1 to 2.50	11 4	0.6 0.2	0	•	0	•
	sing*	55	0.2	2	•	0 9	•
40-44							
	0 to -1.50	8	0.6	1	0.5	4	0.4
	9 to -1.01	0	• .	0	•	0	•
	0 to51	45	3.1	3	1.4	29	2.7
	0 to01	120	8.3	10	4.8	60	5.7
	0 to .01	1091	75.6	173	83.2	812	76.5
	2 to .50 1 to 1.00	125 40	8.7	18	8.7	113	10.7
	1 to 1.50	12	2.8 0.8	2 1	1.0 0.5	38	3.6
	1 to 2.50	2	0.1	0		5 0	0.5
	sing*	22	<b>0.1</b>	5	•	15	•
45-49							
	0 to -1.50	1	0.2	0	•	1	0.1
	9 to -1.01	0	•	0	•	0	•
	0 to51	16	3.1	2	1.2	21	2.3
	0 to01	44	8.6	14	8.2	59	6.4
	0 to .01	393	76.8	135	79.4	699	76.3
	2 to .50	40	7.8	14	8.2	114	12.4
	1 to 1.00 1 to 1.50	11	2.1 1.0	4	2.4	18	2.0
	1 to 1.50	5 2	0.4	1	0.6	3	0.3
	sing*	6	U.4	0 4	•	1	0.1
WIP	erna.	0		4		14	

Table A-24 (Continued).

		Active duty		Reserve		National Guard	
Age group	Hyper- phoria**	N	4	N	*	N	*
> 50							
-2.5	0 to -1.50	0	•	1	2.5	0	•
-1.4	9 to -1.01	0	•	0	•	0	•
-1.0	0 to51	5	5.3	0	•	3	1.2
5	0 to01	6	6.3	1	2.5	16	6.6
.0	0 to .01	77	81.1	34	85.0	200	83.0
.0	2 to .50	4	4.2	4	10.0	17	7.1
. 5	1 to 1.00	2	2.1	0	•	4	1.7
1.0	1 to 1.50	1	1.1	0	•	1	0.4
1.5	1 to 2.50	0	•	0	•	0	•
Mis	sing*	0		1		3	

<sup>\*</sup> Missing (not included in totals or percentages)

<sup>\*\*</sup> Right and left hyperphoria combined into one continuous variable

Table A-25.

Female hyperphoria stratified by age group and component (N=305).

Age	Hyper-		<u>e duty</u> 196)		<u>erve</u> =26)	National (N=	
	phoria**	Ň	*	N .	*	N	*
≤ 24							
	60 to -1.50	0	•	0	•	0	•
	9 to -1.01	0	•	0	•	0	•
	00 to51	1	3.0	0	•	0	•
	0 to01	5	15.2	0		0	•
	00 to .01 02 to .50	25	75.8	1	50.0	2	100
	1 to 1.00	1	3.0 3.0	1 0	50.0	0	•
	1 to 1.50	Ŏ		0	•	0	•
	1 to 2.50	0	•	Ö	•	0	•
	sing*	9	•	Ŏ	•	0	•
25-29							
	0 to -1.50	0	•	0	•	0	•
	9 to -1.01	0	•	0	•	0	•
	0 to51	1	1.5	0	•	0	•
	0 to01	3	4.5	0	•	1	5.3
	0 to .01	55	82.1	7	100	15	78.9
	2 to .50	7	10.4	0	•	3	15.8
	1 to 1.00	1	1.5	0	•	0	•
	1 to 1.50 1 to 2.50	0	•	0	•	0	•
	sing*	53	•	0 0	•	0 10	•
30-34							
-2.5	0 to -1.50	1	1.9	0	•	0	
	9 to -1.01	0	•	Ō	•	Ō	•
	0 to51	2	3.7	0	•	0	•
	0 to01	5	9.3	0	•	1	3.0
	0 to .01	40	74.1	6	100	28	84.8
	2 to .50	6	11.1	0	•	3	9.1
	1 to 1.00	0	•	0	•	1	3.0
	1 to 1.50	0	•	0	•	0	•
	1 to 2.50 sing*	0 31	•	0 3	•	0	•
MIS	2111A.	2.7		3		7	

Table A-25 (Continued).

1.00	VI	Activ	e duty	Res	erve	National	Guard
Age group	Hyper- phoria**	N	*	N	*	N	ŧ
35-39							
-1.4 -1.0 5 .0 .0	0 to -1.50 9 to -1.01 0 to51 0 to01 0 to .01 2 to .50 1 to 1.00 1 to 1.50 1 to 2.50 sing*	0 0 2 4 21 3 2 0 0	6.3 12.5 65.5 9.4 6.3	0 0 0 1 7 1 0 0	11.1 77.8 11.1	0 0 0 2 19 3 0 0	8.3 79.2 12.5
40-44	•					_	
-1.4 -1.0 5 .0 .0 .5	0 to -1.50 9 to -1.01 0 to51 0 to01 0 to .01 2 to .50 1 to 1.00 1 to 1.50 1 to 2.50 sing*	0 0 0 1 6 0 0	14.3 85.7	0 0 0 0 1 1 0 0	50.0 50.0	0 0 0 0 4 0 0	100
45-49							
-1.4 -1.0 5 .0 .5 1.0	0 to -1.50 9 to -1.01 0 to51 0 to01 0 to .01 2 to .50 1 to 1.00 1 to 1.50 1 to 2.50 sing*	0 0 0 0 3 0 0	100	None		0 0 0 0 1 0 0 0	: : : 100 : :

<sup>\*</sup> Missing (not included in totals or percentages)

<sup>\*\*</sup> Right and left hyperphoria combined into one continuous variable

Table A-26.

Male esophoria/exophoria stratified by age group and component (N=13,601).

_			e duty		serve	National	
Age	Db		,996)	-	1,004)		,601)
group	Phoria**	N	*	N	*	Ŋ	*
≤ 24							
	<b>≤ -8</b>	1	0.2	1	2.6	0	•
	-7 to -5	8	1.3	1	2.6	0	•
	-4 to -2	85	14.1	4	10.3	16	16.0
	-1 to +1	424	70.5	25	64.1	70	70.0
	+2 to +4	79	13.1	5	12.8	12	12.0
	+5 to +7	3	0.5	3	7.7	1	1.0
	<u>&gt;</u> +8	1	0.2	0	•	1	1.0
	M*	274		5		35	
25-29	_	_				-	
	<u>&lt;</u> −8	2	0.1	0	2.2	2	.2
	-7 to -5	38	2.2	4	18.3	13	1.5
	-4 to -2	215	12.4	33	65.0	164	19.2
	-1 to +1	1281	74.0	117	12.2	588	68.9
	+2 to +4 +5 to +7	189	10.9	22	1.7	72	8.4
	≥ +8	5 1	0.3 0.1	3 1	0.6 0.6	12	1.4
	<u>&gt;</u> +8 M*	1171	0.1	36	0.6	2 209	0.2
	22	11/1		36		209	
30-34	_						
	≤ -8	0	•	0	•	3	0.4
	-7 to -5	37	2.0	3	1.4	11	1.3
	-4 to -2	294	16.0	34	15.7	157	18.7
	-1 to +1	1323	71.9	148	68.5	599	71.2
	+2 to +4 +5 to +7	171	9.3	27	12.5	61	7.3
	> +8	12 2	0.7	4	1.9	10	1.1
	<u>&gt;</u> +0 M*	957	0.1	25	•	0	•
	14	937		25		268	
35-39							
	≤ -8	9	0.5	0	•	4	0.7
	-7 to -5	46	2.6	0	•	19	3.2
	-4 to -2	282	15.9	20	13.3	139	23.5
	-1 to +1	1238	69.7	107	71.3	375	63.5
	+2 to +4	179	10.1	21	14.0	48	8.1
	+5 to +7	20	1.1	2	1.3	6	1.0
	<u>&gt;</u> +8	2	0.1	0	•	0	•
	M*	44		1		8	

Table A-26 (Continued).

•	<b>53</b>		e duty		serve	<u>National</u>	Guard
Age group	Phoria**	N	*	N	*	N	*
40-44							
	<u>&lt; -8</u>	7	0.5	1	0.5	5	0.5
	-7 to -5	37	2.6	1	0.5	26	2.4
	-4 to -2	275	19.1	35	16.8	250	23.5
	-1 to +1	958	66.4	143	68.8	708	66.6
	+2 to +4	151	10.5	25	12.0	66	6.2
	+5 to +7	15	1.0	2	1.0	7	0.7
	<u>&gt;</u> +8	0	•	1	0.5	1	0.1
	M*	22		5		13	
45-49							
	<u>&lt;</u> −8	2	0.4	2	1.2	6	0.7
	-7 to -5	13	2.5	5	2.9	28	3.1
	-4 to -2	100	19.5	42	24.6	219	24.0
	-1 to +1	339	66.2	99	57.9	574	62.9
	+2 to +4	49	9.6	19	11.1	78	8.5
	+5 to +7	8	1.6	3	1.8	7	0.8
	<u>&gt;</u> +8	1	0.2	1	0.6	1	0.1
	M*	6		3		17	
≥ 50							
	<u>&lt;</u> −8	0	5.3	0	•	2	0.8
	-7 to -5	5	23.4	1	2.5	8	3.3
	-4 to -2	22	59.6	13	32.5	75	31.3
	-1 to +1	56	11.7	24	60.0	137	57.1
	+2 to +4	11	8.0	2	5.0	14	5.8
	+5 to +7	0	•	0	•	3	1.3
	<u>&gt;</u> +8	0	•	0	•	1	0.4
	M*	1		1		4	

<sup>\*</sup> Missing (not included in totals or percentages)

<sup>\*\*</sup> Esophoria/exophoria combined into one continuous variable

Table A-27.

Female esophoria/exophoria stratified by age group and component (N=305).

		Active (N=	e duty 195)		<u>erve</u> =26)	National (N=	
Age group	Phoria**	Ŋ	*	N .	*	Ŋ	*
≤ 24							
	≤ -8	0	•	0	•	0	•
	-7 to -5	0	6 1	0	•	0	•
	-4 to -2 -1 to +1	2 27	6.1 81.8	0 2	100	0 2	100
	+2 to +4	4	12.1	Õ		0	
	+5 to +7	Ö		Ŏ	•	Ŏ	•
	<u>&gt;</u> +8	0	•	Ō	•	Ō	•
	M*	9		0		0	
25-29							
	<u>&lt;</u> −8	0	•	0	•	0	•
	-7 to -5	2 7	3.0 10.4	0		0	
	-4 to -2 -1 to +1	55	82.1	2 5	28.6 71.4	3 14	15.8 73.3
	+2 to +4	3	4.5	0	/1.4	1	5.3
	+5 to +7	Ō	•	Ŏ	•	i	5.3
	<u>&gt;</u> +8	Ō	•	Ŏ	•	ō	•
	M*	53		0		10	
30-34							
	<b>≤ -8</b>	0	•	0	•	0	•
	-7 to -5	4	7.4	0	•	1	3.0
	-4 to -2	10	18.5	1	16.7	5	15.2
	-1 to +1	36	66.7	5	83.3	24	72.7
	+2 to +4 +5 to +7	4	7.4 2.2	0	•	2	6.1
	≥ +8	0		0	•	1 0	3.0
	M*	31	•	3	•	7	•
35-39							
	<u>&lt;</u> −8	0	•	0	•	0	•
	-7 to -5	0	•	1	11.1	0	•
	-4 to -2	1	3.2	1	11.1	4	16.0
	-1 to +1	24	77.4	6	66.7	21	84.0
	+2 to +4 +5 to +7	6 0	19.4	1	11.1	0	15.4
	> +8	0	•	0 0	•	0	•
	<u>×</u> ×	1	•	0	•	0 1	•

Table A-27 (Continued).

Age Phor group	'ia*	Active N	e duty %	<u>Res</u> N	erve *	<u>National</u> N	Guard %
40-44							
≤ -8		0	•	0	•	0	
-7 to		0	•	0	•	Ō	•
-4 to	-2	0	•	0	•	1	25.0
-1 to	+1	6	85.7	0	•	3	75.0
+2 to	+4	1	14.3	1	50.0	Ö	•
+5 to	+7	0	•	1	50.0	0	•
≥ +8		0	•	0	•	0	•
M*		0		0		0	
45-49							
≤ -8		0	•	None		0	•
-7 to	-5	1	33.3			0	•
-4 to	-2	1	33.3			0	•
-1 to		1	33.3			1	100
+2 to		0	•			0	•
+5 to		0	•			0	•
<u>&gt;</u> +8		0	•			0	•
M*		0				0	

<sup>≥ 50</sup> None

<sup>\*</sup> Missing (not included in totals or percentages)

<sup>\*\*</sup> Esophoria/exophoria combined into one continuous variable

Table A-28.

Male right ear (500 Hz) stratified by age group and component (N=16,709).

	Hearing		<u>e duty</u> ,447)		erve ,074)	National (N=5	<u>Guard</u> ,188)
Age group	_	N		N		'n	ŧ
≤ 24	≤ 15	829	95.1	37	84.1	127	94.1
	20-35	43	4.9	7	15.9	8	5.9
	40-55	0	•	0	•	0	•
	<u>≥</u> 55	0	•	0	•	0	•
	M *	3		0		0	
25-29	≤ 15	2759	95.2	209	96.8	1055	96.2
	20-35	138	4.8	7	3.2	42	3.8
	40-55	1	.0	0	•	0	•
	<u>≥</u> 55	0	•	0	•	0	•
	M *	4		0		0	
30-34	≤ 15	2657	95.2	229	96.2	1048	94.5
	20-35	133	4.8	9	3.8	60	5.4
	40-55	0	•	0	•	1	0.1
	<u>&gt;</u> 55 M *	0	•	0	•	0	•
	M *	6		3		0	
35-39	≤ 15	1734	95.5	141	94.6	570	95.2
	20-35	80	4.4	8	5.4	29	4.8
	40-55	1	0.1	0	•	0	•
	<u>≥</u> 55	0	•	0	•	0	•
	M *	5		2		0	
40-44	≤ 15	1378	94.2	197	92.5	997	92.7
	20-35	80	5.5	16	7.5	75	7.0
	40-55	4	0.3	0	•	4	0.4
	<u>&gt;</u> 55	1	0.1	0	•	0	•
	M *	2		0		0	

Table A-28 (Continued).

	Wannin	Active duty		Rese	Reserve		Guard
Age group	Hearing level dB**	N	*	N	8	N	*
45-49	<u>≤</u> 15	474	92.2	156	89.7	852	91.8
	20-35	37	7.2	16	9.2	76	8.2
	40-55	3	0.6	1	0.6	0	•
	<u>≥</u> 55	0	•	1	0.6	0	•
	<u>M</u> *	4		0		2	
> 50	≤ 15	93	97.9	34	85.0	220	90.2
	<del>2</del> 0-35	1	1.1	6	15.0	24	9.8
	40-55	1	1.1	0	•	0	•
	≥ 55	0	•	0	•	0	•
	<u>M</u> *	0		1		0	

<sup>\*</sup> Missing (not included in totals or percentages)

<sup>\*\*</sup> Decibels

Table A-29.

Male left ear (500 Hz) stratified by age group and component (N=16,771).

	Hearing		e duty		erve ,075)	National (N=5	<u>Guard</u> ,189)
	level dB**	N		N	•	N	
≤ 24	≤ 15	833	95.5	42	95.5	128	94.8
	20-35	39	4.5	2	4.5	7	5.2
	40-55	0	•	0	•	0	•
	<u>&gt;</u> 55	0	•	0	•	0	•
	M *	3		0		0	
25-29	≤ 15	2751	94.9	208	96.3	1043	95.1
	20-35	148	5.1	8	3.7	54	4.9
	40-55	0	•	0	•	0	•
	<u>≥</u> 55	0	•	0	•	0	•
	M *	3		0		0	
30-34	<b>≤</b> 15	2635	94.4	225	94.1	1050	94.7
	20-35	154	5.5	14	5.9	57	5.1
	40-55	0	•	0	•	2	0.2
	<u>≥</u> 55	1	.0	0	•	0	•
	M *	6		0		0	
35-39	≤ 15	1713	94.4	142	95.3	557	93.0
	20-35	101	5.6	7	4.7	41	6.8
	40-55	1	0.1	0	•	1	0.2
	<u>≥</u> 55	0	•	0	•	0	•
	M *	5		2		0	
40-44	≤ 15	1373	93.9	196	92.0	991	92.1
	20-35	87	6.0	17	8.0	78	7.2
	40-55	2	0.1	0	•	5	0.5
	<u>≥</u> 55	0	•	0	•	2	0.2
	M *	3		0		0	

Table A-29 (Continued).

Age group	Hearing level dB**	Active duty		Res	erve	National	National Guard	
		N	*	N	*	N	*	
45-49	≤ 15	470	91.4	156	89.7	859	92.5	
	20-35	42	8.2	17	9.8	68	7.3	
	40-55	2	0.4	1	0.6	2	0.2	
	≥ 55	0	•	0	•	0	•	
	<u>m</u> *	4		0		1		
> 50	≤ 15	89	93.7	31	77.5	225	92.2	
	20-35	5	5.3	9	22.5	19	7.7	
	40-55	1	1.1	0	•	0	•	
	<u>≥</u> 55	0	•	0	•	0	•	
	<u>₩</u> *	0		1		0		

<sup>\*</sup> Missing (not included in totals or percentages)

<sup>\*\*</sup> Decibels

Table A-30.

Male right ear (1000 Hz) stratified by age group and component (N=16,715).

	Hearing		e duty		<u>erve</u> ,077)	National (N=5	<u>Guard</u> ,189)
Age group	_	N		, N	*	,	*
<u> </u>	≤ 15	861	98.7	44	100	132	97.8
	20-35	11	1.3	0	.0	3	2.2
	40-55	0	•	0	•	0	•
	<u>≥</u> 55	0	•	0	•	0	•
	M *	3		0		0	
25-29	≤ 15	2845	98.1	214	99.1	1078	98.3
	20-35	53	1.8	2	0.9	19	1.7
	40-55	1	.0	0	•	0	•
	<u>≥</u> 55	0	•	0	•	0	•
	M *	3		0		0	
30-34	≤ 15	2737	98.1	233	97.1	1076	97.0
	20-35	53	1.9	7	2.9	32	2.9
	40-55	1	.0	0	0.3	1	0.1
	<u>&gt;</u> 55	0	•	0	•	0	•
	M *	5		1		0	
35-39	≤ 15	1754	96.6	146	98.0	578	96.5
	20-35	59	3.3	3	2.0	20	3.3
	40-55	2	0.1	0	•	1	0.2
	<u>≥</u> 55	0	•	0	•	0	•
	M *	5		2		0	
40-44	≤ 15	1396	95.4	200	93.9	1024	95.2
	20-35	65	4.4	13	6.1	48	4.5
	40-55	2	0.1	0	•	4	0.4
	<u>≥</u> 55	0	•	0	•	0	•
	M *	2		0		2	

Table A-30 (Continued).

	••	Active duty		Res	erve	National	National Guard	
Age group	Hearing level dB**	N	*	N	*	N	*	
45-49	≤ 15	485	94.4	159	91.4	879	94.6	
	20-35	28	5.4	13	7.5	46	5.0	
	40-55	1	0.2	1	0.6	4	0.4	
	<u>≥</u> 55	0	•	1	0.6	0	•	
	M *	4		0		1		
> 50	≤ 15	88	92.6	37	90.2	218	89.9	
	20-35	7	7.4	3	7.3	23	9.4	
	40-55	0	•	1	2.4	3	1.2	
	≥ 55	0	•	0	•	0	•	
	<u>M</u> *	0		0		0		

<sup>\*</sup> Missing (not included in totals or percentages)

<sup>\*\*</sup> Decibels

Table A-31.

Male left ear (1000 Hz) stratified by age group and component (N=16,713).

	Hearing	Active duty (N=10,447)			erve ,077)	National (N=5	<u>Guard</u> ,189)
Age group		N		N		N	
≤ 24	≤ 15	849	97.4	44	100	131	97.0
	20-35	23	2.6	0	•	4	3.0
	40-55	0	•	0	•	0	•
	<u>≥</u> 55	0	•	0	•	0	•
	M *	3		0		0	
25-29	<b>≤ 15</b>	2827	97.5	210	97.2	1080	98.5
	20-35	72	2.5	6	2.8	17	1.5
	40-55	0	•	0	•	0	•
	≥ 55 M *	0	•	0	•	0	•
	M *	3		0		0	
30-34	≤ 15	2713	97.2	227	94.6	1079	97.3
	20-35		2.7	13	5.4	29	2.6
	40-55	1	.0	0	•	1	0.1
	<u>≥</u> 55	1	.0	0	•	0	•
	M *	6		1		0	
35-39	≤ 15	1738	95.8	143	96.0	578	96.5
	20-35	76	4.2	6	4.0	19	3.2
	40-55	1	0.1	0	•	2	0.3
	<u>≥</u> 55	0	•	0	•	0	•
	M *	5		2		0	
40-44	≤ 15	1393	95.3	200	93.9	1013	94.1
	20-35	66	4.5	13	6.1	59	5.5
	40-55	3	0.2	0	•	1	0.1
	≥ 55 M *	0	•	0	•	3	0.3
	M *	3		0		0	

Table A-31 (Continued).

	Vice win a	Active duty		Res	Reserve		National Guard	
Age group	Hearing level dB**	N	*	N	*	N	*	
45-49	≤ 15	480	93.4	158	90.8	876	94.3	
	20-35	31	6.0	14	8.0	52	5.6	
	40-55	3	0.6	2	1.1	1	0.1	
	<u>≥</u> 55	0	•	0	•	0	•	
	<u>M</u> *	4		0		1		
> 50	≤ 15	88	92.6	37	90.2	215	88.1	
	20-35	7	7.4	3	7.3	27	11.1	
	40-55	0	•	1	2.4	1	0.4	
	<u>&gt;</u> 55	0	•	0	•	1	0.4	
	M *	0		0		0		

<sup>\*</sup> Missing (not included in totals or percentages)

<sup>\*\*</sup> Decibels

Table A-32.

Male right ear (2000 Hz) stratified by age group and component (N=16,715).

	Hearing		e duty		erve ,077)	National (N=5	<u>Guard</u> ,189)
Age group	level	N	*	'n		'n	*
≤ 24	≤ 15	858	98.4	43	97.7	131	97.0
	20-35	14	1.6	1	2.3	4	3.0
	40-55	0	•	0	•	0	•
	<u>≥</u> 55	0	•	0	•	0	•
	M *	3		0		0	
25-29	≤ 15	2819	97.2	214	99.1	1069	97.4
	20-35	78	2.7	2	0.9	28	2.6
	40-55	2	0.1	0	•	0	•
	<u>≥</u> 55	0	•	0	•	0	•
	M *	3		0		0	
30-34	≤ 15	2688	96.3	234	97.5	1068	96.3
	20-35	100	3.6	6	2.5	41	3.7
	40-55	3	0.1	0	•	0	•
	<u>≥</u> 55	0	•	0	•	0	•
	M *	5		0		0	
35-39	≤ 15	1701	93.7	141	94.6	574	95.8
	20-35	109	6.0	8	5.4	24	4.0
	40-55	4	0.2	0	•	0	•
	<u>≥</u> 55	1	0.1	0	•	1	0.2
	M *	5		2		0	
40-44	<b>≤</b> 15	1344	91.9	189	88.7	985	91.5
	20-35	108	7.4	22	10.3	78	7.2
	40-55	8	0.5	2	0.9	11	1.0
	<u>≥</u> 55	3	0.2	0	•	2	0.2
	M *	2		0		0	

Table A-32 (Continued).

Age group	Hearing level dB**	Active duty		Res	Reserve		National Guard	
		N	*	N	*	N	ŧ	
45-49	≤ 15	457	88.9	150	86.2	819	88.2	
	20-35	46	8.9	23	13.2	97	10.4	
	40-55	7	1.4	0	•	10	1.1	
	≥ 55	4	0.8	1	0.6	3	0.3	
	M *	4		0		1		
> 50	≤ 15	79	83.2	30	73.2	201	82.4	
	20-35	14	14.7	7	17.1	33	13.5	
	40-55	2	2.1	3	7.3	8	3.3	
	≥ 55	0	•	1	2.4	2	0.8	
	M *	0		0		0		

<sup>\*</sup> Missing (not included in totals or percentages)

<sup>\*\*</sup> Decibels

Table A-33.

Male left ear (2000 Hz) stratified by age group and component (N=16,715).

	Hearing		e <u>dutv</u> ,449)		e <u>rve</u> ,077)	National (N=5	<u>Guard</u> ,189)
	level		8	N		N	
group	dB**						
≤ 24	≤ 15	851	97.6	43	97.7	127	94.1
	20-35	20	2.3	1	2.3	8	5.9
	40-55	0	•	0	•	0	•
	<u>≥</u> 55	1	0.1	0	•	0	•
	M *	3		0		0	
25-29	≤ 15	2778		208		1053	96.0
	20-35	120	4.1	8	3.7	44	4.0
	40-55	1	.0	Ů	•	0	•
	<u>≥</u> 55	0	•	0	•	0	•
	M *	3		0		0	
30-34	≤ 15	2646		227		1046	94.3
	20-35	143	5.1	12	5.0	63	5.7
	40-55	1	.0	1	0.4	0	•
	<u>≥</u> 55	1	.0	0	•	0	•
	M *	5		1		0	
35-39	≤ 15	1657		139	93.3	555	92.7
	20-35	151	8.3	10	6.7	43	7.2
	40-55		0.3	0	•	0	•
	<u>≥</u> 55	1	0.1	0	•	1	0.2
	M *	5		2		0	
40-44	≤ 15	1288	88.0	183		953	88.6
	20-35	155	10.6	22	10.3	111	10.3
	40-55	16	1.1	7	3.3	8	0.7
	<u>≥</u> 55	4	0.3	1	0.5	4	0.4
	M *	2		0		0	

Table A-33 (Continued).

Age group	Hearing level dB**	Active duty		Res	Reserve		Guard
		N	*	N	\$	N	8
45-49	≤ 15	435	84.6	146	83.9	779	83.9
	20-35	65	12.6	23	13.2	136	14.6
	40-55	13	2.5	4	2.3	11	1.2
	≥ 55	1	0.2	1	0.6	3	0.3
	M *	4		0		1	
> 50	≤ 15	70	73.7	27	65.9	183	75.0
	20-35	18	18.9	10	24.4	49	20.1
	40-55	4	4.2	4	9.8	9	3.7
	<u>≥</u> 55	3	3.2	0	•	3	1.2
	M *	0		0		0	

<sup>\*</sup> Missing (not included in totals or percentages)

<sup>\*\*</sup> Decibels

Table A-34.

Male right ear (3000 Hz) stratified by age group and component (N=16,710).

	Hearing level dB**	Active (N=10) N	e duty ,446) %		erve (076)	<u>National</u> (N=5 N	<u>Guard</u> ,188) <b>%</b>
< 24	≤ 15	834	95.6	44	100	123	91.1
	20-35		4.2	0	•	11	8.1
	40-55	1	0.1	0	•	1	0.7
	≥ 55	Ō	•	0	•	0	•
	<u>M</u> *	3		0		0	
25-29	≤ 15	2690	92.8	205	94.9	1040	94.8
	20-35	198	6.8	11	5.1	57	5.2
	40-55	11	0.4	0	•	0	•
	<u>≥</u> 55	0	•	0	•	0	•
	M *	3		0		0	
30-34	≤ 15	2524	90.5	215		1010	91.2
	20-35	238	8.5	20	8.4	88	7.9
	40-55	25	0.9	3	1.3	6	0.5
	<u>≥</u> 55	2	0.1	1	0.4	4	0.4
	M *	7		2		1	
35-39	≤ 15	1504	82.9	126	84.6	510	85.1
	20-35	259	14.3	17	11.4	75	12.5
	40-55	-	2.4	6	4.0	10	1.7
	<u>≥</u> 55		0.5	0	•	4	0.7
	M *	5		2		0	
40-44	≤ 15	1069	73.1	163	-	771	71.7
	20-35	305	20.9	35	16.4	220	20.4
	40-55	65	4.4	11	5.2	64	5.9
	<u>≥</u> 55	23	1.6	4	1.9	21	2.0
	M *	3		0		0	

Table A-34 (Continued).

	Hearing level dB**	Active duty		Res	Reserve		Guard
Age group		N	*	N	*	N	ક
45-49	<u>≤</u> 15	321	62.5	117	67.2	589	63.4
	20-35	131	25.5	39	22.4	226	24.3
	40-55	42	8.2	16	9.2	92	9.9
	≥ 55	20	3.9	2	1.1	22	2.4
	≥ 55 M *	4		0		1	
> 50	≤ 15	49	51.6	19	46.3	128	52.5
	20-35	27	28.4	11	26.8	73	29.9
	40-55	11	11.6	7	17.1	27	11.1
	≥ 55	8	8.4	4	9.8	16	6.6
	M *	0		0		0	

<sup>\*</sup> Missing (not included in totals or percentages)

<sup>\*\*</sup> Decibels

Table A-35.

Male left ear (3000 Hz) stratified by age group and component (N=16,709).

Age	Hearing level	Active (N=10			erve ,076)	National (N=5 N	,188)
	dB**						
< 24	≤ 15	803	92.1	43	97.7	120	88.9
	20-35	66	7.6	1	2.3	14	10.4
	40-55	3	0.3	Ō	•	1	0.7
	<u>≥</u> 55	0	•	0	•	0	•
	M *	3		0		0	
25-29	≤ 15	2605	89.9	202	93.5	991	90.3
	20-35	270	9.3	13	6.0	100	9.1
	40-55	24	0.8	1	0.5	6	0.5
	<u>≥</u> 55	0	•	0	•	0	•
	M *	3		0		0	
30-34	≤ 15	2319	83.1	199	83.3	962	86.8
	20-35	427	15.3	35	14.6	132	11.59
	40-55	37	1.3	5	2.1	12	1.1
	<u>≥</u> 55	6	0.2	0	•	2	0.2
	M *	7		2		1	
35-39	≤ 15	1376	75.9	120	80.5	468	78.1
	20-35	363	20.0	24	16.1	106	17.7
	40-55	61	3.4	4	2.7	22	3.7
	<u>&gt;</u> 55	14	0.8	1	0.7	3	0.5
	M *	6		2		0	
40-44	_	932	63.7	132		674	62.6
	20-35	377	25.8	52	24.4	268	24.9
	40-55		7.9	22	10.3	104	9.7
	≥ 55	37	2.5	7	3.3	30	2.8
	M *	3		0		0	

Table A-35 (Continued).

Age group	Hearing level dB**	Active duty		Res	erve	National	Guard
		N	*	N	ŧ	N	*
45-49	≤ 15	277	53.9	94	54.0	513	55.2
	20-35	151	29.4	52	29.9	281	30.2
	40-55	59	11.5	19	10.9	99	10.7
	≥ 55	27	5.3	9	5.2	36	3.9
	<u>M</u> *	4		0		1	
> 50	≤ 15	46	48.4	17	41.5	102	41.8
	20-35	19	20.0	10	24.4	·76	31.1
	40-55	20	21.1	10	24.4	46	18.9
	≥ 55	10	10.5	4	9.8	20	8.2
	<u>M</u> *	0		0		0	

<sup>\*</sup> Missing (not included in totals or percentages)

<sup>\*\*</sup> Decibels

Table A-36.

Male right ear (4000 Hz) stratified by age group and component (N=16,714).

Age	Hearing level		e duty ,449) %		erve ,076)	National (N=5 N	Guard ,189) %
group	dB**						
≤ 24	< 15	812	93.1	41	93.2	117	86.7
2 24	20-35	52	6.0	3	6.8	16	11.9
	40-55	8	0.9	Ŏ	•	2	1.5
	≥ 55	Ö	•	ŏ	•	ō	1.5
	<u>M</u> *	3	•	Ŏ	•	ŏ	•
25-29	≤ 15	2572	88.7	194	89.8	980	89.3
	20-35	283	9.8	19	8.8	106	9.7
	40-55	42	1.4	3	1.4	10	0.9
	≥ 55 M *	2	0.1	0	•	1	0.1
	M *	3		0		0	
30-34	≤ 15	2290	82.0	196	82.0	931	83.9
	20-35	429	15.4	28	11.7	141	12.7
	40-55	59	2.1	13	5.4	31	2.8
	<u>&gt;</u> 55	13	0.5	2	.8	6	0.5
	M *	5		2		0	
35-39	-	1305	71.9	106	71.1	416	69.4
	20-35	371	20.4	36	24.2	132	22.0
	40-55	107	5.9	5	3.4	40	6.7
	<u>&gt;</u> 55	32	1.8	2	1.3	11	1.8
	<u>M</u> *	5		2		2	
40-44	≤ 15	836	57.1	120	56.3	573	53.3
	20-35	385	26.3	65	30.5	311	28.9
	40-55	177	12.1	22	10.3	130	12.1
	≥ 55	65	4.4	6	2.8	62	5.8
	M *	2		0		0	

Table A-36 (Continued).

Age group	Hearing level dB**	Active duty		Res	erve	National	National Guard	
		N	*	N	*	N	*	
45-49	≤ 15	231	44.9	83	47.7	392	42.2	
	20-35	151	29.4	52	29.9	305	32.8	
	40-55	77	15.0	30	17.2	160	17.2	
	≥ 55	55	10.7	9	5.2	72	7.8	
	M *	4		0		1		
> 50	≤ 15	36	37.9	14	34.1	81	33.2	
	20-35	24	25.3	14	34.1	71	29.1	
	40-55	18	18.9	5	12.2	57	23.4	
	≥ 55	17	17.9	8	19.5	35	14.3	
	M *	0		0		0		

<sup>\*</sup> Missing (not included in totals or percentages)

<sup>\*\*</sup> Decibels

Table A-37.

Male left ear (4000 Hz) stratified by age group and component (N=16,713).

	Hearing	Active (N=10	e duty		<u>erve</u> ,077)	National (N=5	<u>Guard</u> ,189)
Age group	level dB**	N	*	'n	*	N	*
≤ 24	≤ 15	777	89.1	42	95.5	117	86.7
	20-35	86	9.9	1	2.3	14	10.4
	40-55	9	1.0	1	2.3	4	3.0
	<u>≥</u> 55	0	•	0	•	0	•
	M *	3		0		0	
25-29	≤ 15	2477	85.4	183	84.7	923	84.1
	20-35	346	11.9	29	13.4	142	12.9
	40-55	73	2.5	4	1.9	31	2.8
	<u>&gt;</u> 55	3	0.1	0	•	1	0.1
	M *	3		0		0	
30-34	≤ 15	2132	76.4	177	73.8	832	75.0
	20-35	523	18.7	51	21.3	224	20.2
	40-55	112	4.0	11	4.6	47	4.2
	<u>≥</u> 55	23	0.8	1	0.4	6	0.5
	M *	6		1		0	
35-39	≤ 15	1188	65.5	94	63.1	370	61.8
	20-35	447	24.6	44	29.5	154	25.7
	40-55	144	7.9	8	5.4	57	9.5
	<b>≤</b> 55	36	2.0	3	2.0	18	3.0
	M *	5		2		0	
40-44	<b>≤</b> 15	684	46.8	100	46.9	464	43.1
	20-35	471	32.2	68	31.9	345	32.1
	40-55	211	14.4	26	12.2	184	17.1
	≥ 55	96	6.6	19	8.9	83	7.7
	M *	3		0		0	

Table A-37 (Continued).

		Active	e duty	Res	erve	National	Guard
Age group	Hearing level dB**	N	*	N	*	N	*
45-49	≤ 15	165	32.1	58	33.3	345	37.1
	20-35	193	37.5	64	36.8	329	35.4
	40-55	107	20.8	35	20.1	166	17.9
	≥ 55	49	9.5	17	9.8	89	9.6
	<u>M</u> *	4		0		ı	
> 50	≤ 15	24	25.3	12	29.3	56	23.0
	20-35	28	29.5	11	26.8	81	33.2
	40-55	22	23.2	9	22.0	65	26.6
	≥ 55	21	22.1	9	22.0	42	17.2
	<u>M</u> *	0		0		0	

<sup>\*</sup> Missing (not included in totals or percentages)

<sup>\*\*</sup> Decibels

Table A-38.

Male right ear (6000 Hz) stratified by age group and component (N=16,707).

	Hearing		e duty		erva ,077)	National (N=5	<u>Guard</u> ,186)
Age group	level dB**	N	8	N	*	N	*
<u>≤ 24</u>	<u>≤</u> 15	610	70.0	30	68.2	106	78.5
	20-35	237	27.2	11	25.0	23	17.0
	40-55	22	2.5	2	4.5	6	4.4
	<u>&gt;</u> 55	2	0.2	1	2.3	0	•
	M *	4		0		0	
25-29	≤ 15	1894	65.4	166	76.9	799	72.8
	20-35	861	29.7	44	20.4	274	25.0
	40-55	128	4.4	6	2.8	23	2.1
	<u>≥</u> 55	15	0.5	0	•	1	0.1
	M *	4		0		0	
30-34	≤ 15	1621	58.1	161	67.1	739	66.6
	20-35	967	34.7	63	26.3	308	27.8
	40-55	163	5.8	13	5.4	39	3.5
	<u>≥</u> 55	39	1.4	3	1.3	23	2.1
	M *	6		1		0	
35-39	≤ 15	923	50.9	74	49.7	336	56.2
	20-35	661	36.4	55	36.9	188	31.4
	40-55	151	8.3	15	10.1	49	8.2
	<u>≥</u> 55	80	4.4	5	3.4	25	4.2
	M *	5		2		1	
40-44	≤ 15	563	38.5	85	39.9	442	41.1
	20-35	587	40.1	82	38.5	402	37.4
	40-55	189	12.9	30	14.1	127	11.8
	≥ 55	124	8.5	16	7.5	105	9.8
	M *	2		0		0	

Table A-38 (Continued).

	<b></b> ,	Activ	e duty	Res	erve	National	Guard
Age group	Hearing level dB**	N	*	N	\$	N	*
45-49	≤ 15	129	25.4	50	28.7	275	29.7
	20-35	207	40.4	76	43.7	379	40.9
	40-55	108	21.1	33	19.0	164	17.7
	≥ 55	68	13.3	15	8.6	109	11.8
	<u>M</u> *	6		0		3	
> 50	<b>≤</b> 15	19	20.0	9	22.0	50	20.5
	20-35	35	36.8	16	39.0	98	40.2
	40-55	18	18.9	8	19.5	51	20.9
	≥ 55	23	24.2	8	19.5	45	18.4
	M *	0		0		0	

<sup>\*</sup> Missing (not included in totals or percentages)

<sup>\*\*</sup> Decibels

Table A-39.

Male left ear (6000 Hz) stratified by age group and component (N=16,702).

	Hearing level dB**	Active (N=10 N			erve ,076)	National (N=5 N	Guard ,185) <b>%</b>
≤ 24	≤ 15	553		28	63.6	96	71.1
	20-35 40-55	277 36	31.8 4.1	11 5	25.0 11.4	34 5	25.2 3.7
	≥ 55	4	0.5	0	****	ő	J.,
	M *	5		Ŏ	•	ō	•
25-29	≤ 15	1679	57.9	147	68.1	714	65.1
	20-35	1021	35.2	58	26.9	318	29.0
	40-55	172	5.9	10	4.6	51	4.6
	<u>≥</u> 55	27	0.9	1	0.5	14	1.3
	M *	3		0		0	
30-34	≤ 15	1433		145	60.4	638	57.5
	20-35	1066	38.2	73	30.4	370	33.4
	40-55		8.1	20	8.3	77	6.9
	<u>≥</u> 55	64	2.3	2	0.8	24	2.2
	M *	6		1		0	
35-39	≤ 15	748	41.2	66	44.3	294	49.2
	20-35	769	42.4	61	40.9	216	36.1
	40-55	213	11.7	18	12.1	55	9.2
	≥ 55	85	4.7	4	2.7	33	5.5
	M *	5		2		1	
40-44	≤ 15	416	28.5	70	33.0	339	31.6
	20-35	605	41.4	82	38.7	435	40.5
	40-55	249	17.1	35	16.5	175	16.3
	≥ 55 × 1	190	13.0	25	11.8	125	11.6
	M *	5		1		2	

Table A-39 (Continued).

	***************************************	Activ	e duty	Res	erve	<u>National</u>	Guard
Age group	Hearing level dB**	N	*	N	*	N	ક
45-49	≤ 15	119	23.2	46	26.4	240	25.9
	20-35	209	40.8	70	40.2	366	39.4
	40-55	106	20.7	27	15.5	193	20.8
	<u>≥</u> 55	78	15.2	31	17.8	129	13.9
	<u>M</u> *	6		0		2	
> 50	≤ 15	16	16.8	8	19.5	46	18.9
	2 <del>0</del> -35	31	32.6	14	34.1	90	36.9
	40-55	23	24.2	9	22.0	54	22.1
	<b>≥</b> 55	25	26.3	10	24.4	54	22.1
	≥ 55 M *	0		0		0	

<sup>\*</sup> Missing (not included in totals or percentages)

<sup>\*\*</sup> Decibels

Table A-40.

Female right ear (500 Hz) stratified by age group.

) are	Hearing level	All co	mponents** 420)
Age group	dB***	N	8
≤ 24	≤ 15	44	95.7
	20-35	2	4.3
	40-55	0	•
	<u>≥</u> 55	0	•
	M *	0	
25-29	≤ 15	151	96.8
	20-35	5	3.2
	40-55	0	•
	<u>≥</u> 55	0	•
	M *	0	
30-34	≤ 15	129	96.3
	20-35	4	3.0
	40-55	1	0.7
	<u>&gt;</u> 55 M *	0	•
	M *	0	
35-39	≤ 15	64	95.5
	20-35	3	4.5
	40-55	0	•
	<u>&gt;</u> 55	0	•
	M *	0	
40-44	≤ 15	13	100
	20-35	0	•
	40-55	0	•
	<u>&gt;</u> 55 M *	0	•
	M *	0	

Table A-40 (Continued).

	Hearing	All comp	onents**
Age group	level dB***	N	*
45-49	≤ 15	4	100
	20-35	0	•
	40-55	0	•
	<u>&gt;</u> 55	0	•
	<b>M</b> *	0	
50 <u>≥</u>	≤ 15	None	
	20-35		
	40-55		
	<u>≥</u> 55		

- \* Missing (not included in totals or percentages)
- \*\* Includes active duty, reserve, and National Guard
- \*\*\* Decibels

Table A-41. Female left ear (500 Hz) stratified by age group.

	Hearing		mponents** 419)
Age group	level dB***	N	8
≤ 24	≤ 15	46	100
	20-35	0	•
	40-55	0	•
	<u>≥</u> 55	0	•
	<u>M</u> *	0	
25-29	≤ 15	151	96.8
	20-35	5	3.2
	40-55	0	•
	<u>≥</u> 55	0	•
	<u>M</u> *	0	
30-34	≤ 15	128	96.2
	20-35	4	3.0
	40-55	1	0.8
	<u>&gt;</u> 55 M *	0	•
	M *	1	
35-39	≤ 15	64	95.5
	20-35	3	4.5
	40-55	0	•
	<u>≥</u> 55	0	•
	M *	0	
40-44	≤ 15	13	100
	20-35	0	•
	40-55	0	•
	≥ 55 M *	0	•
	M *	0	

Table A-41 (Continued).

	Hearing	All comp	onents*
Age group	level dB***	N	8
45-49	≤ 15	4	100
	20-35	0	•
	40-55	0	•
	≥ 55 M *	0	•
	M *	0	
50 ≥	<b>≤</b> 15	None	
_	20-35		
	40-55		
	<u>≥</u> 55		

- \* Missing (not included in totals or percentages)
- \*\* Includes active duty, reserve, and National Guard
- \*\*\* Decibels

Table A-42.

Female right ear (1000 Hz) stratified by age group.

	Hearing	All co	mponents** 420)
Age group	level dB***	N	*
≤ 24	≤ 15	45	97.8
	20-35	1	2.2
	40-55	0	•
	<u>&gt;</u> 55	0	•
	M *	0	
25-29	≤ 15	155	99.4
	20-35	1	0.6
	40-55	0	•
	<u>&gt;</u> 55	0	•
	M *	0	
30-34	<b>≤</b> 15	132	98.5
	20-35	2	1.5
	40-55	0	•
	> 55 M *	0	•
	M *	0	
35-39	≤ 15	66	98.5
	20-35	1	1.5
	40-55	0	•
	<u>≥</u> 55	0	•
	M *	0	
40-44		13	100
	20-35	0	•
	40-55	0	•
	<u>&gt;</u> 55 M *	0	•
	M *	0	

Table A-42 (Continued).

	Hearing	All com	onente	**	
Age group	level	N	*		
<del></del>	≤ 15	4	100		
	20-35	0	•		
	40-55	0	•		
	<u>≥</u> 55	0	•		
	<u>M</u> *	0			
50 >	≤ 15	None			
	20-35				
	40-55				
	<u>&gt;</u> 55				

- \*\* Includes active duty, reserve, and National Guard
- \*\*\* Decibels

Table A-43.
Female left ear (1000 Hz) stratified by age group.

•	Hearing	All co	omponents** 420)
Age group	level dB***	N	<b>*</b>
≤ 24	≤ 15	45	97.8
	20-35	1	2.2
	40-55	0	•
	<u>≥</u> 55	0	•
	M *	0	
25-29	≤ 15	154	98.7
	20-35	2	1.3
	40-55	0	•
	≥ 55 M →	0	•
	M *	0	
30-34	<b>≤</b> 15	133	99.3
	20-35	1	0.7
	40-55	0	•
	<u>≥</u> 55	0	•
	M *	0	
35-39	≤ 15	66	98.5
	20-35	1	1.5
	40-55	0	•
	<u>&gt;</u> 55	0	•
	M *	0	
40-44		13	100
	20-35	0	•
	40-55	0	•
	≥ 55 <b>×</b> •	0	•
	M *	0	

Table A-43 (Continued).

	Hearing	All com	onents**
Age group	level dB***	· N	<b>%</b>
45-49	≤ 15	4	100
	20-35	0	•
	40-55	0	•
	≥ 55 M *	0	•
	M *	0	
50 <u>≥</u>	≤ 15	None	
_	20-35		
	40-55		
	<u>≥</u> 55		

- \* Missing (not included in totals or percentages)
- \*\* Includes active duty, reserve, and National Guard
- \*\*\* Decibels

Table A-44.

Female right ear (2000 Hz) stratified by age group.

	Hearing	All co	inponents** 420)
Age group	level dB***	N	8
<u>&lt; 24</u>	≤ 15	44	95.7
_	20-35	2	4.3
	40-55	0	•
	≥ 55 M *	0	•
	M *	0	
25-29	<b>≤</b> 15	155	99.4
	20-35	1	0.6
	40-55	0	•
	<u>&gt;</u> 55	0	•
	M *	0	
30-34	≤ 15	129	96.3
	20-35	5	3.7
	40-55	0	•
	<u>&gt;</u> 55 M *	0	•
	M *	0	
35-39	<b>≤</b> 15	64	95.5
	20-35	3	4.5
	40-55	0	•
	<u>≥</u> 55	0	•
	M *	0	
40-44	<b>≤</b> 15	12	92.3
	20-35	0	_ • _
	40-55	1	7.7
	<u>&gt;</u> 55	0	•
	M *	0	

Table A-44 (Continued).

	Hearing	All comp	onents**
Age group	level dB***	N	*
45-49	≤ 15	4	100
	20-35	0	•
	40-55	0	•
	≥ 55 M *	0	•
	M *	0	
50 <u>≥</u>	≤ 15	None	
_	20-35		
	40-55		
	≥ 55		

- \* Missing (not included in totals or percentages)
- \*\* Includes active duty, reserve, and National Guard
- \*\*\* Decibels

Table A-45.

Female left ear (2000 Hz) stratified by age group.

	Hearing	AII CO	mponents** :420)
Age group	level dB***	N	*
<u>−</u> ≤ 24	≤ 15	45	97.8
	20-35	1	2.2
	40-55	ō	•
	≥ 55	0	•
	M *	0	
25-29	≤ 15	154	98.7
	20-35	2	1.3
	40-55	0	•
	> 55 M *	0 0	•
	M *	U	
30-34		130	97.0
	20-35	4	3.0
	40-55	0	•
	<u>&gt;</u> 55	0	•
	M *	0	
35-39		64	95.5
	20-35	3	4.5
	40-55	0	•
	≥ 55 <b>×</b> •	0	•
	M *	0	
40-44		12	92.3
	20-35	0	•
	40-55	1	7.7
	≥ 55 M *	0 0	•

Table A-45 (Continued).

	Hearing	All com	ponents**
Age group	level dB***	N	<b>&amp;</b>
45-49	≤ 15	3	75.0
	20-35	1	25.0
	40-55	0	•
	<b>≥</b> 55	0	•
	M *	0	
50 <u>≥</u>	≤ 15	None	
_	20-35		
	40-55		
	≥ 55		

- \* Missing (not included in totals or percentages)
- \*\* Includes active duty, reserve, and National Guard
- \*\*\* Decibels

Table A-46.

Female right ear (3000 Hz) stratified by age group.

	77 a a a d m		mponents**
Age	Hearing level	(N=	420)
	dB***	N	*
≤ 24	≤ 15	44	95.7
	20-35	2	4.3
	40-55	0	•
	<u>≥</u> 55	0	•
	M *	0	
25-29	≤ 15	154	98.7
	20-35	2	1.3
	40-55	0	•
	<u>≥</u> 55	0	•
	M *	0	
30-34	≤ 15	128	95.5
	20-35	6	4.5
	40-55	0	0.9
	<u>≥</u> 55	0	•
	M *	0	
35-39		63	94.0
	20-35	4	6.0
	40-55	0	•
	<u>&gt;</u> 55	0	•
	M *	0	
40-44		12	92.3
	20-35	0	•
	40-55	1	7.7
	<u>≥</u> 55	0	•
	M *	0	

Table A-46 (Continued).

	Hearing level dB***	All components**		
Age group		N	*	
45-49	≤ 15	4	100	
	20-35	0	•	
	40-55	0	•	
	≥ 55	0	•	
	<u>M</u> *	0		
50 ≥	≤ 15	None		
_	20-35			
	40-55			
	≥ 55			

- \* Missing (not included in totals or percentages)
- \*\* Includes active duty, reserve, and National Guard
- \*\*\* Decibels

Table A-47.

Female left ear (3000 Hz) stratified by age group.

	Hearing		mponents** 420)
Age group	level dB***	N	*
≤ 24	≤ 15	45	97.8
	20-35	1	2.2
	40-55	0	•
	<u>≥</u> 55	0	•
	M *	0	
25-29	<b>≤</b> 15	153	98.1
	20-35	3	1.9
	40-55	0	•
	<u>≥</u> 55	0	•
	M *	0	
30-34	≤ 15	127	94.8
	20-35	7	5.2
	40-55	0	•
	<u>≥</u> 55	0	•
	M *	0	
35-39	≤ 15	61	91.0
	20-35	6	9.0
	40-55	0	•
	<u>≥</u> 55	0	•
	M *	0	
40-44	≤ 15	12	92.3
	20-35	0	
	40-55	1	7.7
	≥ 55 X ±		•
	40-55 ≥ 55 M *	0	

Table A-47 (Continued).

	Hearing	All com	ponents**
Age group	level	N	*
45-49	≤ 15	2	50.0
	20-35	2	50.0
	40-55	0	•
	<u>&gt;</u> 55	0	•
	<u>M</u> *	0	
50 <u>≥</u>	≤ 15	None	
	20-35		
	40-55		
	<u>&gt;</u> 55		

- \* Missing (not included in totals or percentages)
- \*\* Includes active duty, reserve, and National Guard
- \*\*\* Decibels

Table A-48.

Female right ear (4000 Hz) stratified by age group.

• • •	Hearing	All co	mponents** 420)
Age group	level dB***	N	8
≤ 24	≤ 15	46	100
	20-35	0	•
	40-55	0	•
	≥ 55	0	•
	M *	0	
25-29	≤ 15	152	97.4
	20-35	4	2.6
	40-55	0	•
	≥ 55	0	•
	M *	0	
30-34	≤ 15	123	91.8
	20-35	11	8.2
	40-55	0	•
	≥ 55 M *	0	•
	M *	0	
35-39	≤ 15	62	92.5
	20-35	5	7.5
	40-55	0	•
	≥ 55 M *	0	•
	M *	0	
40-44	≤ 15	12	92.3
	20-35	1	7.7
	40-55	0	•
	<u>≥</u> 55	0	•
	M *	0	

Table A-48 (Continued).

	Hearing	All comp	onents**
Age group	level	N	8
45-49	≤ 15	4	100
	20-35	0	•
	40-55	0	•
	<u>≥</u> 55	0	•
	≥ 55 M *	0	
50 ≥	≤ 15	None	
	20-35		
	40-55		
	≥ 55		

- \* Missing (not included in totals or percentages)
- \*\* Includes active duty, reserve, and National Guard
- \*\*\* Decibels

Table A-49.

Female left ear (4000 Hz) stratified by age group.

	Hearing	All co	mponents** 420)
Age group	level dB***	N	*
≤ 24	≤ 15	45	97.8
	20-35	1	2.2
	40-55	0	•
	<u>≥</u> 55	0	•
	M *	0	
25-29	≤ 15	149	95.5
	20-35	6	3.8
	40-55	1	0.6
	≥ 55 X →	0 0	•
	M *	U	
30-34	≤ 15	125	93.3
	20-35	9	6.7
	40-55	Ō	•
	≥ 55	Ö	•
	<u>m</u> *	0	
25 20	. 15	<b>5</b> 0	06.6
35-39	≤ 15 20-35	58 9	86.6 13.4
	40-55	0	
	≥ 55	Ö	•
	<u>~</u> 33 M *	Ŏ	•
	- <b>-</b>	•	
40-44	<b>≤ 15</b>	12	92.3
	20-35	1	7.7
	40-55	0	•
	<u>≥</u> 55	0	•
	M *	0	

Table A-49 (Continued).

	Hearing	All co	mponents
Age group	level dB***	N	*
45-49	≤ 15	1	25.0
	20-35	3	75.0
	40-55	0	•
	<u>&gt;</u> 55	0	•
	M *	0	
50 <u>≥</u>	<u>&lt;</u> 15	Non	e
-	20-35		. •
	40-55		
	≥ 55		

- \* Missing (not included in totals or percentages)
- \*\* Includes active duty, reserve, and National Guard
- \*\*\* Decibels

Table A-50.

Female right ear (6000 Hz) stratified by age group.

	Hearing		mponents** 420)
Age	level dB***	N	*
≤ 24	≤ 15	35	76.1
	20-35	11	23.9
	40-55	0	•
	≥ 55	0	•
	M *	0	
25-29		110	70.5
	20-35	43	27.6
	40-55	3	1.9
	≥ 55 M *	0	•
	M *	0	
30-34		93	69.4
	20-35	40	29.9
	40-55	1	0.7
	<u>&gt;</u> 55	0 0	•
	M *	U	
35-39		44	65.7
	20-35	21	31.3
	40-55	2	3.0
	<u>&gt;</u> 55 M *	0	•
	W *	0	
40-44		10	76.9
	20-35	3	23.1
	40-55	0	•
	≥ 22 ¥ •		•
	≥ 55 M *	0	

Table A-50 (Continued).

	Hearing	All com	ponents**
Age group	level	N	<b>%</b>
45-49	≤ 15	3	75.0
	20-35	1	25.0
	40-55	0	•
	<u>≥</u> 55	0	•
	M *	0	
50 ≥	≤ 15	None	
	20-35		
	40-55		
	≥ 55		

- \* Missing (not included in totals or percentages)
- \*\* Includes active duty, reserve, and National Guard
- \*\*\* Decibels

Table A-51.

Female left ear (6000 Hz) stratified by age group.

	**	All co	mponents**
λας	Hearing level	(N=	420)
Age	dB***	N	*
≤ 24	<u>&lt;</u> 15	29	63.0
	20-35	16	34.8
	40-55	1	2.2
	<u>≥</u> 55	0	•
	M *	0	
25-29	≤ 15	106	67.9
	20-35	48	30.8
	40-55	2	1.3
	≥ 55	0	•
	M *	0	
30-34	≤ 15	91	67.9
	20-35	38	28.4
	40-55	5	3.7
	≥ 55	0	•
	M *	0	
35-39	≤ 15	41	60.5
	20-35	23	34.2
	40-55	3	5.3
	<u>&gt;</u> 55 M *	0	•
	M *	0	
40-44	≤ 15	6	46.2
	20-35	6	46.2
	40-55	1	7.7
	≥ 55	0	•
	<u>M</u> *	0	

Table A-51 (Continued).

	Hearing	All com	ponents**
<b>A</b> ge group	level	N	*
45-49	≤ 15	2	50.0
	20-35	1	25.0
	40-55	1	25.0
	≥ 55	0	•
	<u>M</u> *	0	
50 ≥	≤ 15	None	
_	20-35		
	40-55		
	≥ 55		

- \* Missing (not included in totals or percentages)
- \*\* Includes active duty, reserve, and National Guard
- \*\*\* Decibels

## Initial distribution

Commander, U.S. Army Natick Research,
Development and Engineering Center
ATTN: SATNC-MIL (Documents
Librarian)
Natick, MA 01760-5040

U.S. Army Communications-Electronics Command ATTN: AMSEL-RD-ESA-D Fort Monmouth, NJ 07703

Commander
10th Medical Laboratory
ATTN: Audiologist
APO New York 09180

Naval Air Development Center Technical Information Division Technical Support Detachment Warminster, PA 18974

Commanding Officer, Naval Medical Research and Development Command National Naval Medical Center Bethesda, MD 20814-5044

Deputy Director, Defense Research and Engineering
ATTN: Military Assistant for Medical and Life Sciences
Washington, DC 20301-3080

Commander, U.S. Army Research Institute of Environmental Medicine Natick, MA 01760

Library
Naval Submarine Medical Research Lab
Box 900, Naval Sub Base
Groton, CT 06349-5900

Director, U.S. Army Human Engineering Laboratory ATTN: Technical Library Aberdeen Proving Ground, MD 21005

Commander
Man-Machine Integration System
Code 602
Naval Air Development Center
Warminster, PA 18974

Commander
Naval Air Development Center
ATTN: Code 602-B (Mr. Brindle)
Warminster, PA 18974

Commanding Officer
Armstrong Laboratory
Wright-Patterson
Air Force Base, OH 45433-6573

Director
Army Audiology and Speech Center
Walter Reed Army Medical Center
Washington, DC 20307-5001

Commander/Director
U.S. Army Combat Surveillance
and Target Acquisition Lab
ATTN: DELCS-D
Fort Monmouth, NJ 07703-5304

Commander, U.S. Army Institute of Dental Research ATTN: Jean A. Setterstrom, Ph. D. Walter Reed Army Medical Center Washington, DC 20307-5300 Commander, U.S. Army Test and Evaluation Command ATTN: AMSTE-AD-H Aberdeen Proving Ground, MD 21005

Naval Air Systems Command Technical Air Library 950D Room 278, Jefferson Plaza II Department of the Navy Washington, DC 20361

Director
U.S. Army Ballistic
Research Laboratory
ATTN: DRXBR-OD-ST Tech Reports
Aberdeen Proving Ground, MD 21005

Commander
U.S. Army Medical Research
Institute of Chemical Defense
ATTN: SGRD-UV-AO
Aberdeen Proving Ground,
MD 21010-5425

Commander, U.S. Army Medical Research and Development Command ATTN: SGRD-RMS (Ms. Madigan) Fort Detrick, Frederick, MD 21702-5012

Director Walter Reed Army Institute of Research Washington, DC 20307-5100

HQ DA (DASG-PSP-O) 5109 Leesburg Pike Falls Church, VA 22041-3258

Harry Diamond Laboratories ATTN: Technical Information Branch 2800 Powder Mill Road Adelphi, MD 20783-1197 U.S. Army Materiel Systems
Analysis Agency
ATTN: AMXSY-PA (Reports Processing)
Aberdeen Proving Ground
MD 21005-5071

U.S. Army Ordnance Center and School Library Simpson Hall, Building 3071 Aberdeen Proving Ground, MD 21005

U.S. Army Environmental
Hygiene Agency
ATTN: HSHB-MO-A
Aberdeen Proving Ground, MD 21010

Technical Library Chemical Research and Development Center Aberdeen Proving Ground, MD 21010--5423

Commander
U.S. Army Medical Research
Institute of Infectious Disease
SGRD-UIZ-C
Fort Detrick, Frederick, MD 21702

Director, Biological
Sciences Division
Office of Naval Research
600 North Quincy Street
Arlington, VA 22217

Commander
U.S. Army Materiel Command
ATTN: AMCDE-XS
5001 Eisenhower Avenue
Alexandria, VA 22333

Commandant
U.S. Army Aviation
Logistics School ATTN: ATSQ-TDN
Fort Eustis, VA 23604

Headquarters (ATMD)
U.S. Army Training
and Doctrine Command
ATTN: ATBO-M
Fort Monroe, VA 23651

IAF Liaison Officer for Safety USAF Safety Agency/SEFF 9750 Avenue G, SE Kirtland Air Force Base NM 87117-5671

Naval Aerospace Medical Institute Library Building 1953, Code 03L Pensacola, FL 32508-5600

Command Surgeon
HQ USCENTCOM (CCSG)
U.S. Central Command
MacDill Air Force Base, FL 33608

Air University Library (AUL/LSE) Maxwell Air Force Base, AL 36112

U.S. Air Force Institute of Technology (AFIT/LDEE) Building 640, Area B Wright-Patterson Air Force Base, OH 45433

Henry L. Taylor Director, Institute of Aviation University of Illinois-Willard Airport Savoy, IL 61874

Chief, National Guard Bureau ATTN: NGB-ARS (COL Urbauer) Room 410, Park Center 4 4501 Ford Avenue Alexandria, VA 22302-1451 Commander
U.S. Army Aviation Systems Command
ATTN: SGRD-UAX-AL
4300 Goodfellow Blvd., Building 105
St. Louis, MO 63120

U.S. Army Aviation Systems Command Library and Information Center Branch ATTN: AMSAV-DIL4300 Goodfellow BoulevardSt. Louis, MO 63120

Federal Aviation Administration Civil Aeromedical Institute Library AAM-400A P.O. Box 25082 Oklahoma City, OK 73125

Commander
U.S. Army Academy
of Health Sciences
ATTN: Library
Fort Sam Houston, TX 78234

Commander
U.S. Army Institute of Surgical Research
ATTN: SGRD-USM (Jan Duke)
Fort Sam Houston, TX 78234-6200

AAMRL/HEX Wright-Patterson Air Force Base, OH 45433

John A. Dellinger, Southwest Research Institute P. 0. Box 28510 San Antonio, TX 78284

Product Manager Aviation Life Support Equipment ATTN: AMCPM-ALSE 4300 Goodfellow Boulevard St. Louis, MO 63120-1798 Commander and Director
USAE Waterways Experiment Station
ATTN: CEWES-IM-MI-R
Alfrieda S. Clark, CD Department
3909 Halls Ferry Road
Vicksburg, MS 39180-6199

Commanding Officer Naval Biodynamics Laboratory P.O. Box 24907 New Orleans, LA 70189-0407

Assistant Commandant
U.S. Army Field Artillery School
ATTN: Morris Swott Technical Library
Fort Sill, OK 73503-0312

Mr. Peter Seib Human Engineering Crew Station Box 266 Westland Helicopters Limited Yeovil, Somerset BA20 2YB UK

U.S. Army Dugway Proving Ground Technical Library, Building 5330 Dugway, UT 84022

U.S. Army Yuma Proving Ground Technical Library Yuma, AZ 85364

AFFTC Technical Library 6510 TW/TSTL Edwards Air Force Base, CA 93523-5000

Commander
Code 3431
Naval Weapons Center
China Lake, CA 93555

Aeromechanics Laboratory
U.S. Army Research and Technical Labs
Ames Research Center, M/S 215-1
Moffett Field, CA 94035

Sixth U.S. Army
ATTN: SMA
Presidio of San Francisco, CA 94129

Commander
U.S. Army Aeromedical Center
Fort Rucker, AL 36362

Strughold Aeromedical Library
Document Service Section
2511 Kennedy Circle
Brooks Air Force Base, TX 78235-5122

Dr. Diane Damos
Department of Human Factors
ISSM, USC
Los Angeles, CA 90089-0021

U.S. Army White Sands
Missile Range
ATTN: STEWS-IM-ST
White Sands Missile Range, NM 88002

U.S. Army Aviation Engineering
Flight Activity
ATTN: SAVTE-M (Tech Lib) Stop 217
Edwards Air Force Base, CA 93523-5000

Ms. Sandra G. Hart Ames Research Center MS 262-3 Moffett Field, CA 94035

Commander, Letterman Army Institute of Research ATTN: Medical Research Library Presidio of San Francisco, CA 94129 Commander
U.S. Army Medical Materiel
Development Activity
Fort Detrick, Frederick, MD 21702-5009

Commander
U.S. Army Health Services Command
ATTN: HSOP-SO
Fort Sam Houston, TX 78234-6000

U. S. Army Research Institute Aviation R&D Activity ATTN: PERI-IR Fort Rucker, AL 36362

Commander
U.S. Army Safety Center
Fort Rucker, AL 36362

U.S. Army Aircraft Development
Test Activity
ATTN: STEBG-MP-P
Cairns Army Air Field
Fort Rucker, AL 36362

Commander, U.S. Army Medical Research and Development Command ATTN: SGRD-PLC (COL Schnakenberg) Fort Detrick, Frederick, MD 21702

TRADOC Aviation LO Unit 21551, Box A-209-A APO AE 09777

Netherlands Army Liaison Office Building 602 Fort Rucker, AL 36362

British Army Liaison Office Building 602 Fort Rucker, AL 36362 Italian Army Liaison Office Building 602 Fort Rucker, AL 36362

Directorate of Training Development Building 502 Fort Rucker, AL 36362

Chief
USAHEL/USAAVNC Field Office
P. O. Box 716
Fort Rucker, AL 36362-5349

Commander, U.S. Army Aviation Center and Fort Rucker
ATTN: ATZQ-CG
Fort Rucker, AL 36362

Chief
Test & Evaluation Coordinating Board
Cairns Army Air Field
Fort Rucker, AL 36362

MAJ Terry Newman Canadian Army Liaison Office Building 602 Fort Rucker, AL 36362

German Army Liaison Office Building 602 Fort Rucker, AL 36362

French Army Liaison Office USAAVNC (Building 602) Fort Rucker, AL 36362-5021

Australian Army Liaison Office Building 602 Fort Rucker, AL 36362 Dr. Garrison Rapmund 6 Burning Tree Court Bethesda, MD 20817

Commandant, Royal Air Force Institute of Aviation Medicine Farnborough, Hampshire GU14 6SZ UK

Commander
U.S. Army Biomedical Research
and Development Laboratory
ATTN: SGRD-UBZ-I
Fort Detrick, Frederick, MD 21702

Defense Technical Information Cameron Station, Building 5 Alexandra, VA 22304-6145

Commander, U.S. Army Foreign Science and Technology Center AIFRTA (Davis) 220 7th Street, NE Charlottesville, VA 22901-5396

Director, Applied Technology Laboratory USARTL-AVSCOM ATTN: Library, Building 401 Fort Eustis, VA 23604

Commander, U.S. Air Force
Development Test Center
101 West D Avenue, Suite 117
Eglin Air Force Base, FL 32542-5495

Aviation Medicine Clinic TMC #22, SAAF Fort Bragg, NC 28305

Dr. H. Dix Christensen Bio-Medical Science Building, Room 753 Post Office Box 26901 Oklahoma City, OK 73190 Commander, U.S. Army Missile
Command
Redstone Scientific Information Center
ATTN: AMSMI-RD-CS-R
/ILL Documents
Redstone Arsenal, AL 35898

Director Army Personnel Research Establishment Farnborough, Hants GU14 6SZ UK

U.S. Army Research and Technology Laboratories (AVSCOM) Propulsion Laboratory MS 302-2 NASA Lewis Research Center Cleveland, OH 44135

COL John F. Glenn
U.S. Army Medical Research
& Development Command
SGRD-ZC
Fort Detrick, Frederick, MD 21702-5012

Dr. Eugene S. Channing 7985 Schooner Court Frederick, MD 21701-3273

USAMRDC Liaison at Academy of Health Sciences ATTN: HSHA-ZAC-F Fort Sam Houston, TX 78234

Dr. A. Kornfield, President Biosearch Company 3016 Revere Road Drexel Hill, PA 29026

NVESD AMSEL-RD-NV-ASID-PST (Attn: Trang Bui) 10221 Burbeck Road Fort Belvior, VA 22060-5806 CA Av Med HQ DAAC Middle Wallop Stockbridge, Hants S020 8DY UK

Dr. Christine Schlichting Behavioral Sciences Department Box 900, NAVUBASE NLON Groton, CT 06349-5900 COL C. Fred Tyner
U.S. Army Medical Research
& Development Command
SGRD-ZB
Fort Detrick, Frederick, MD 21702-5012

Director
Directorate of Combat Developments
ATZQ-CD
Building 515
Fort Rucker, AL 36362

## Best Available Copy